

The first feet and the first in first to feet ship feet the feet feet first

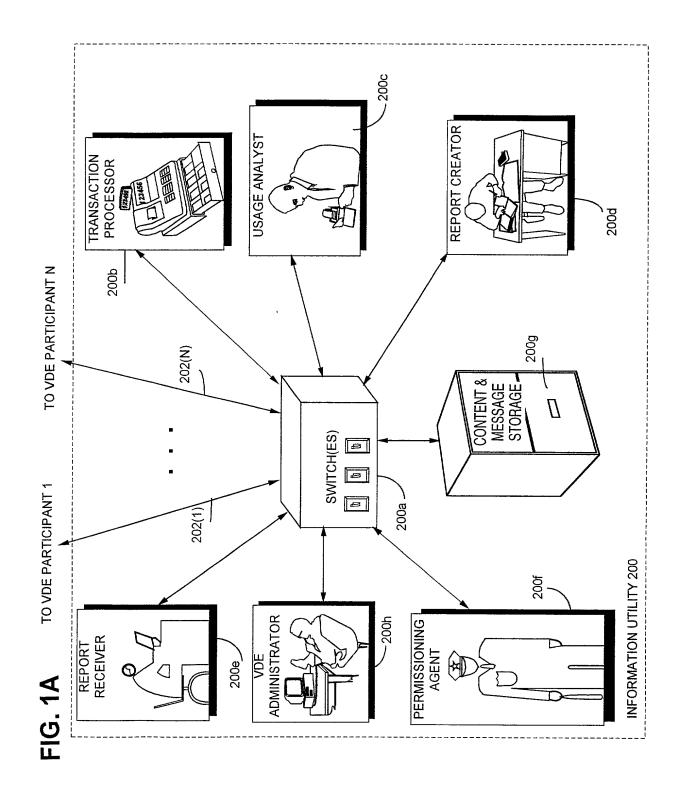


FIG. 2

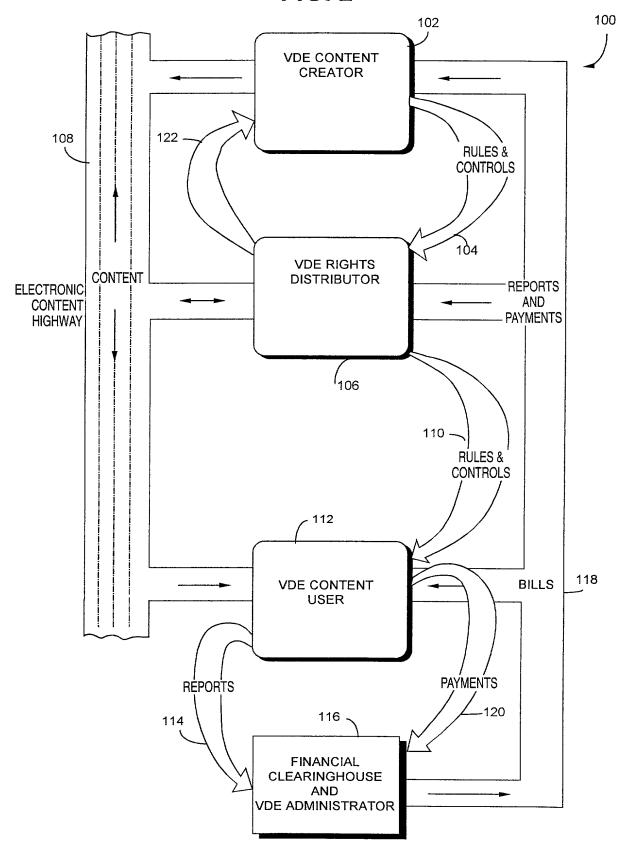
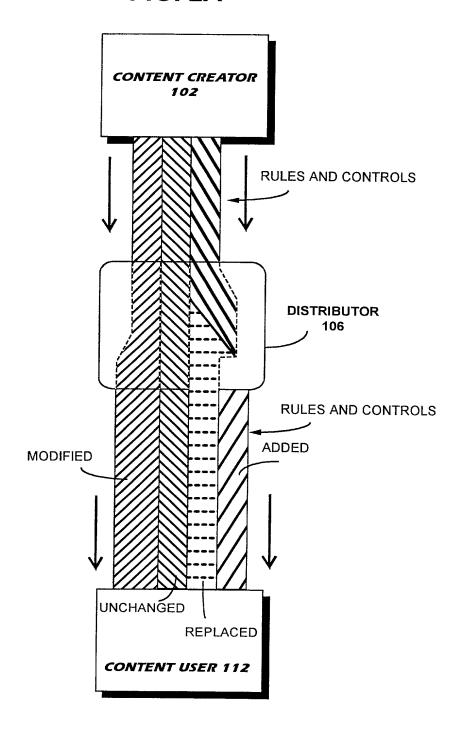
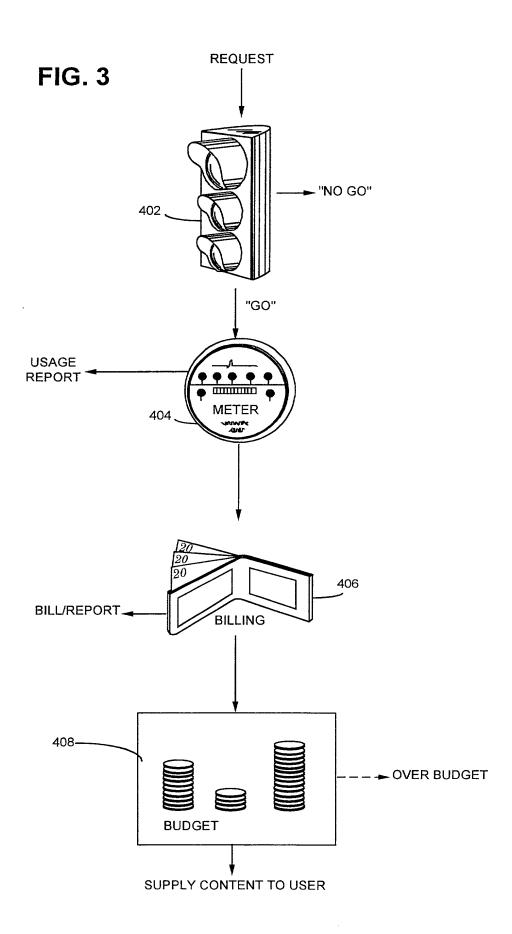


FIG. 2A





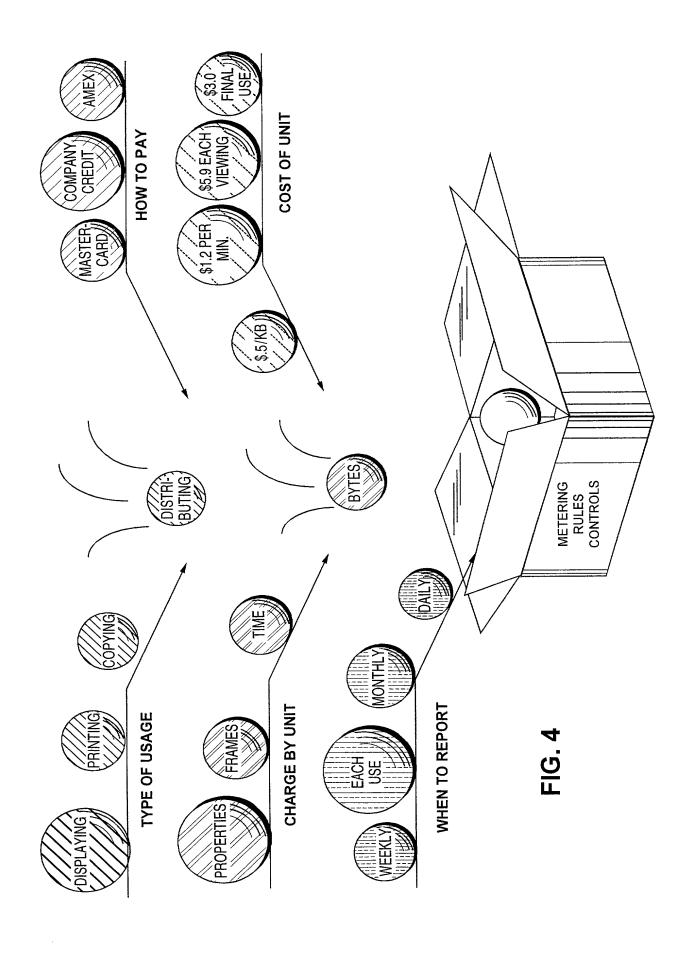
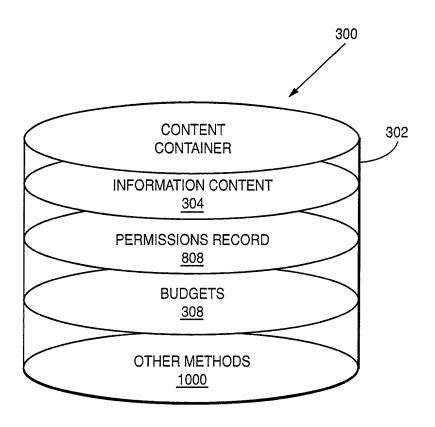
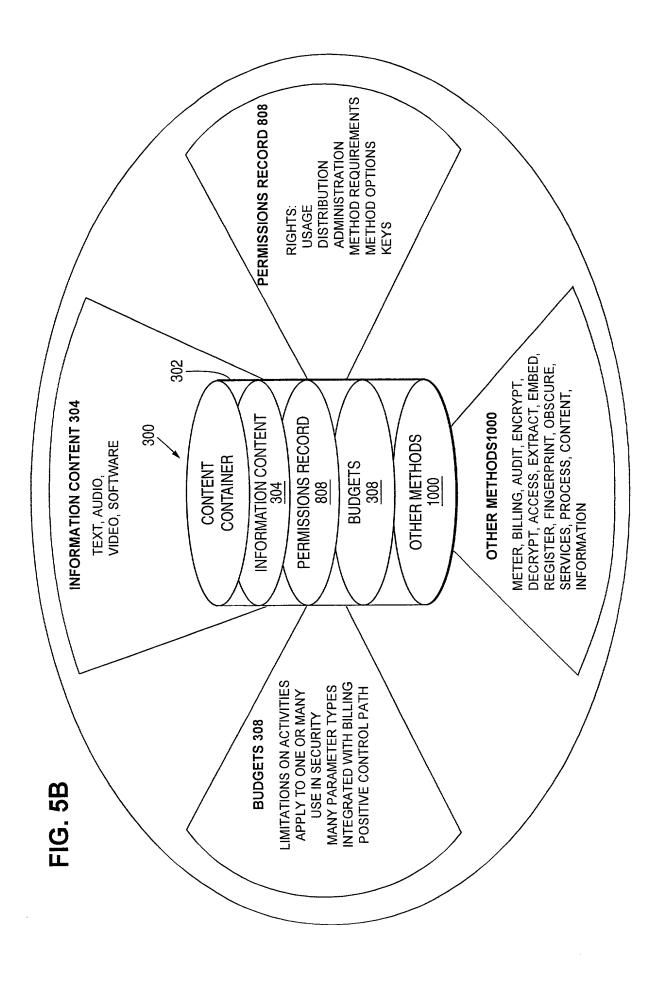
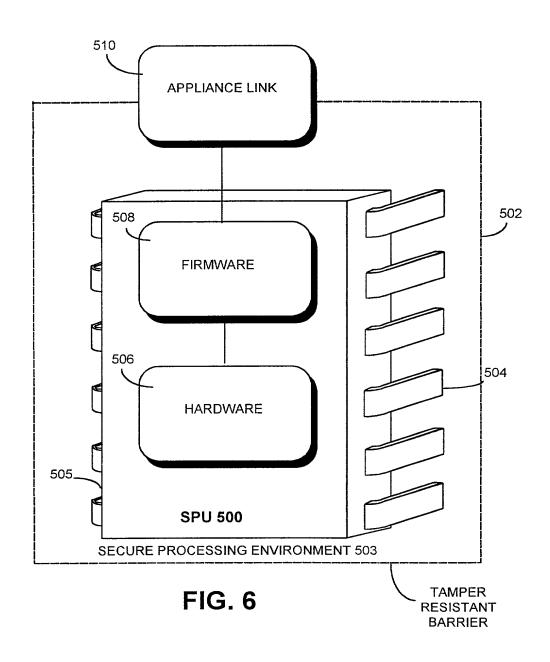
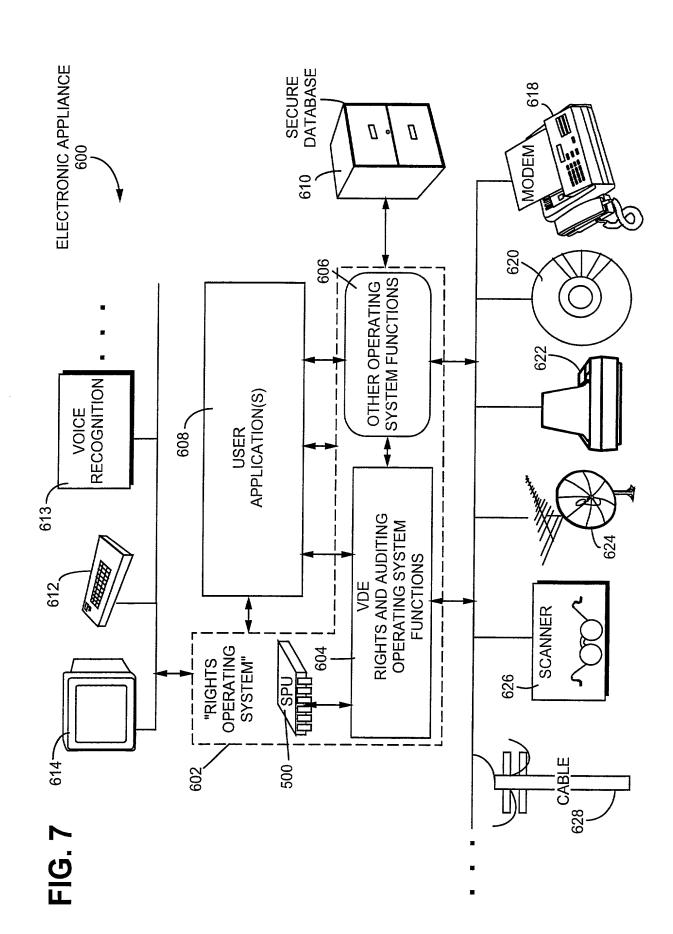


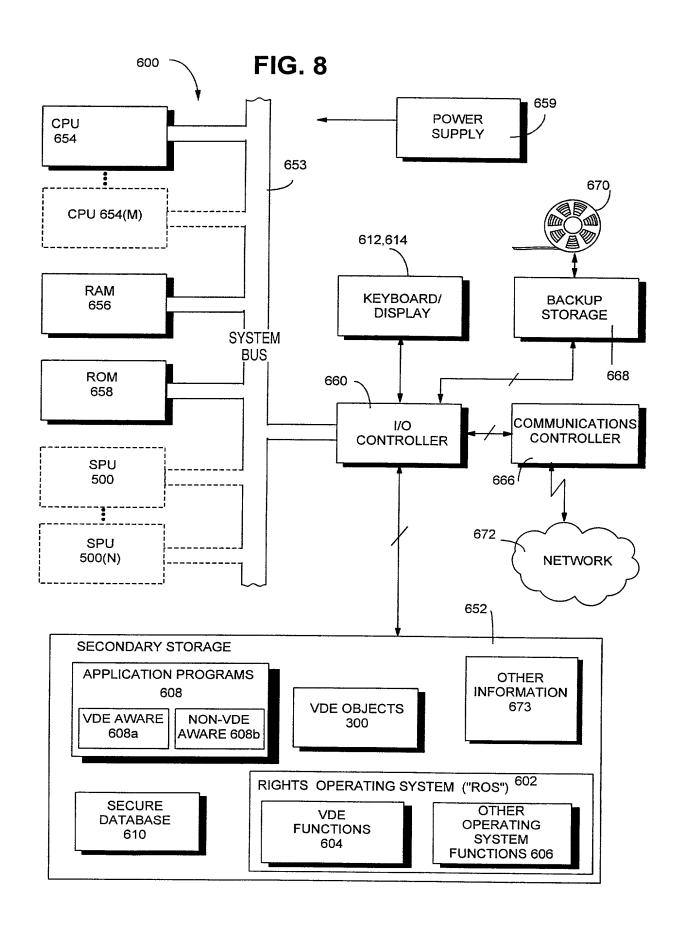
FIG. 5A

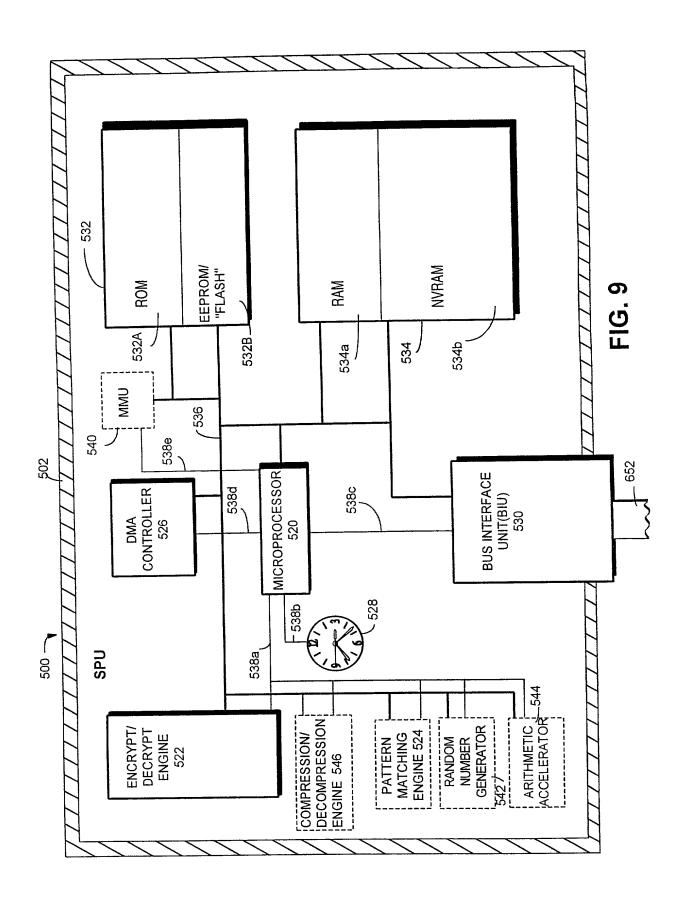


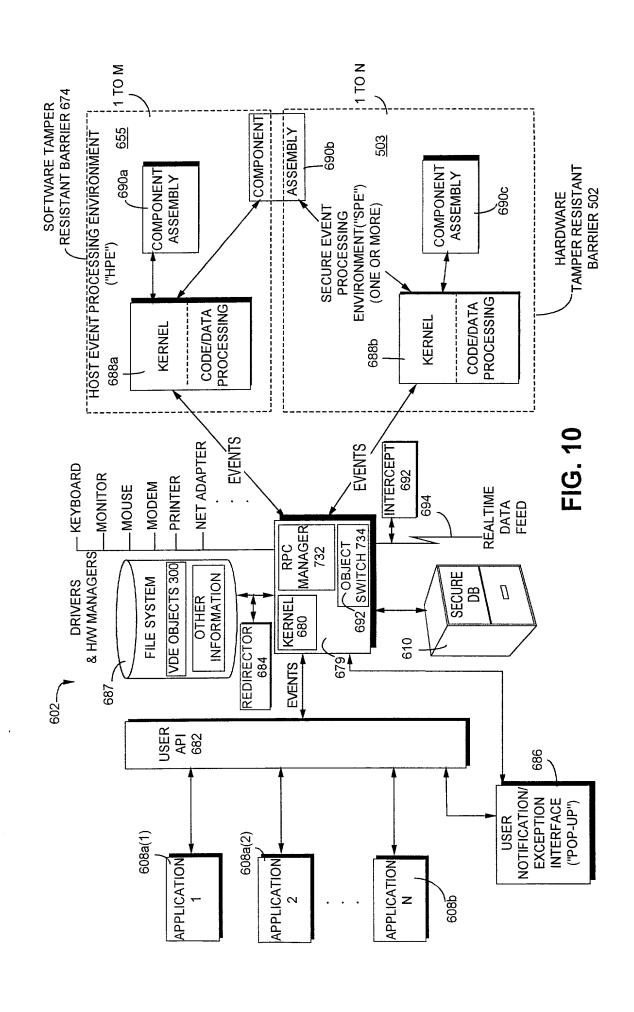


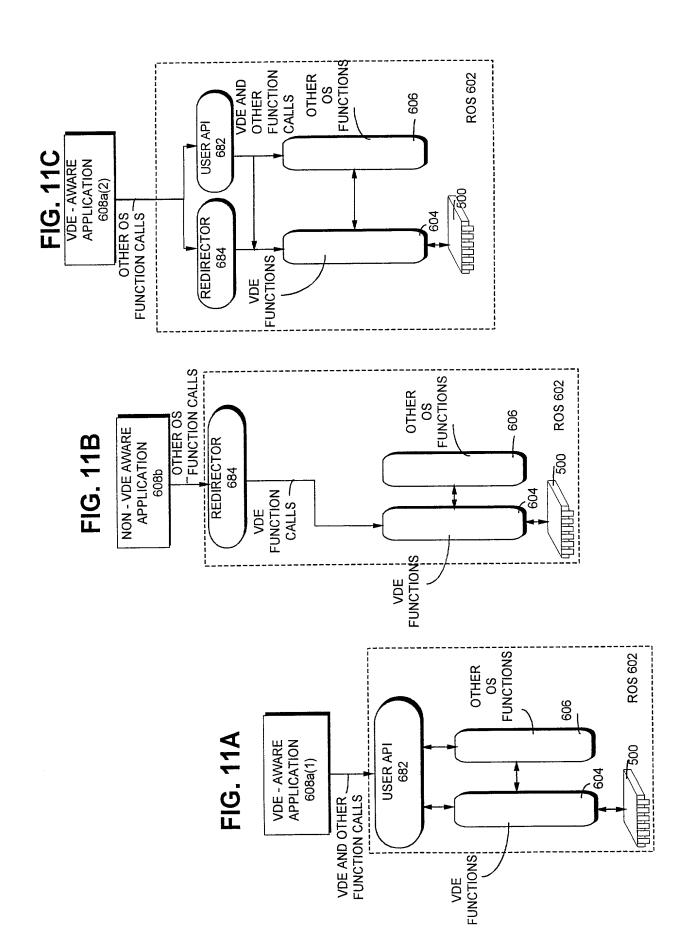


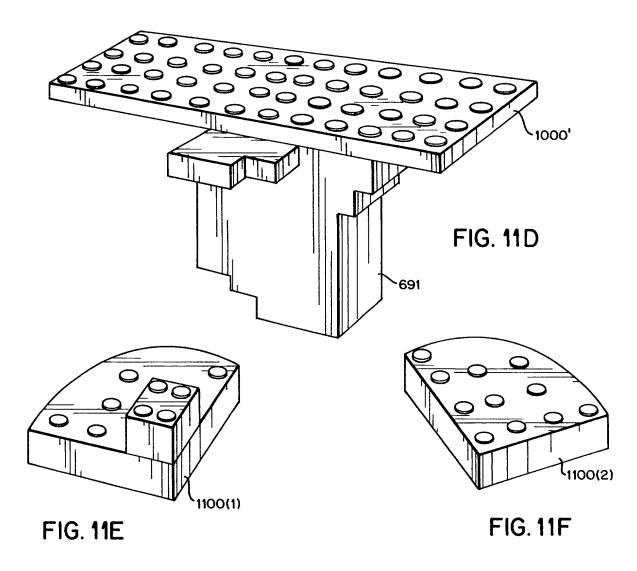


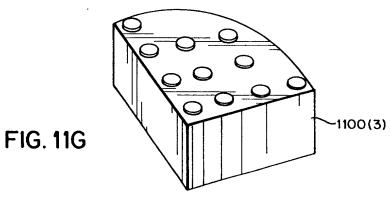












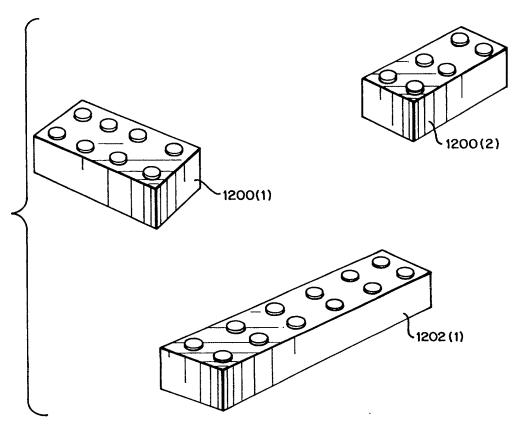
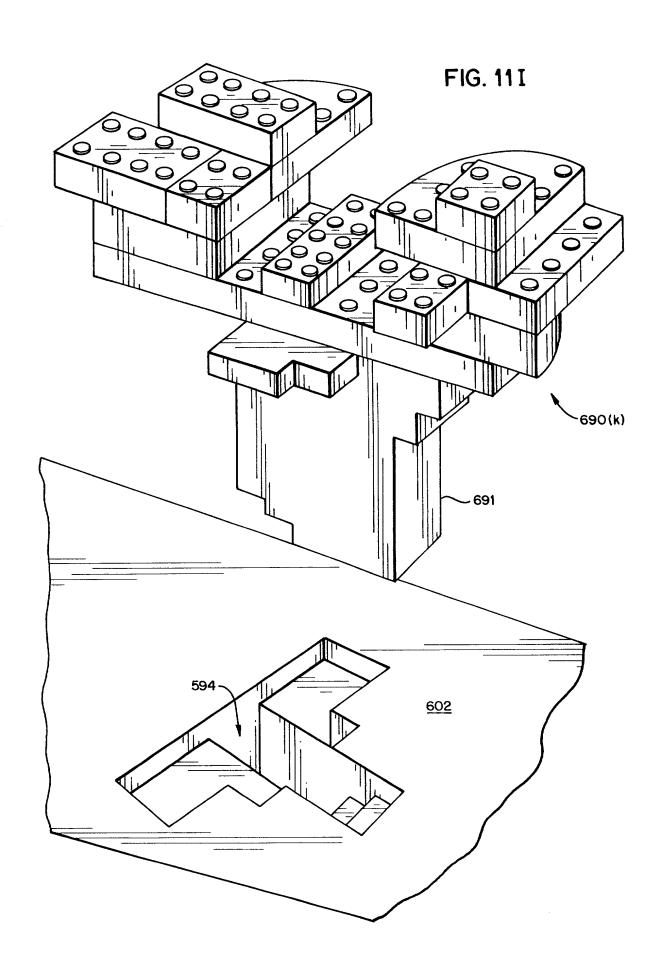
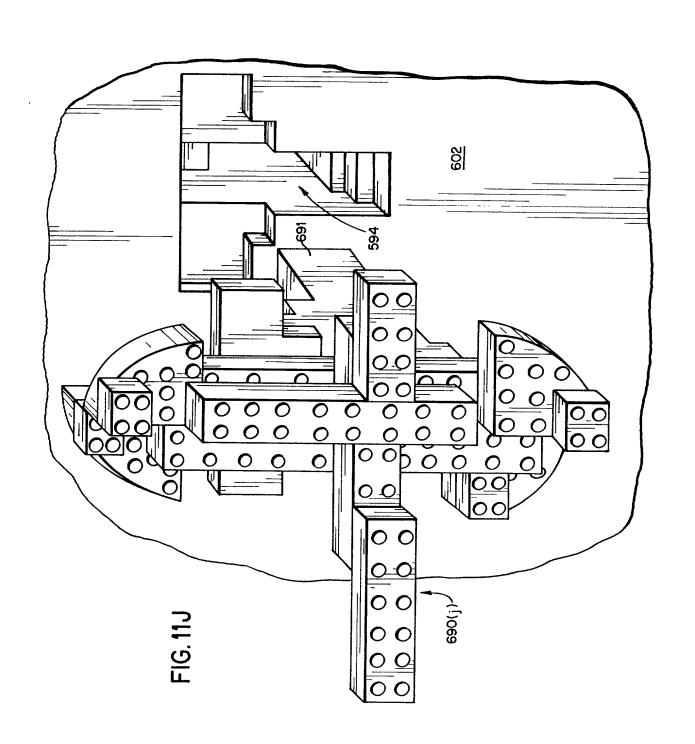
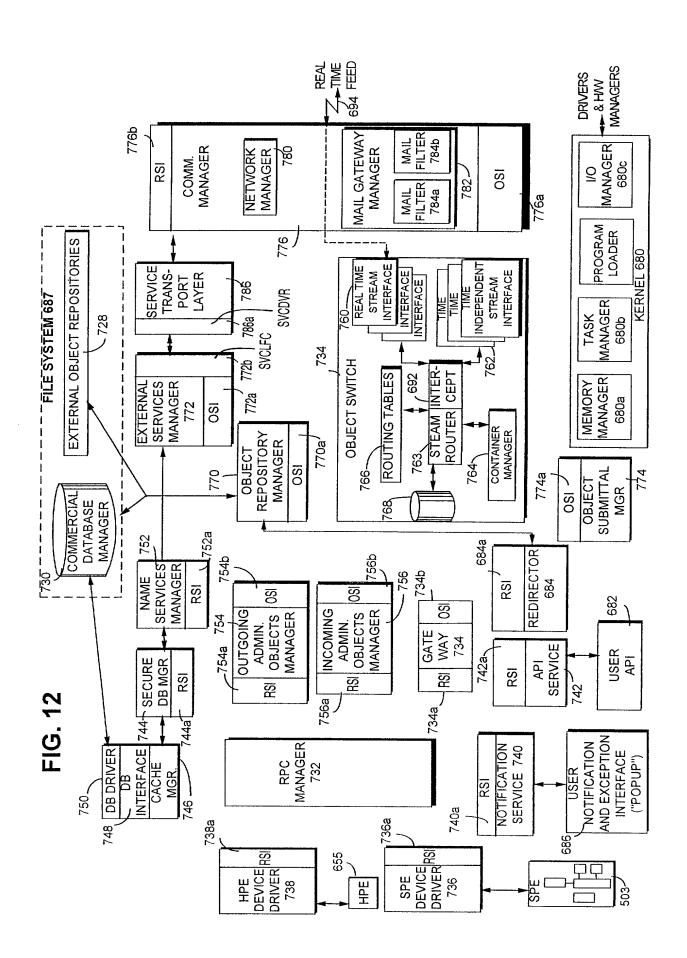


FIG. 11H







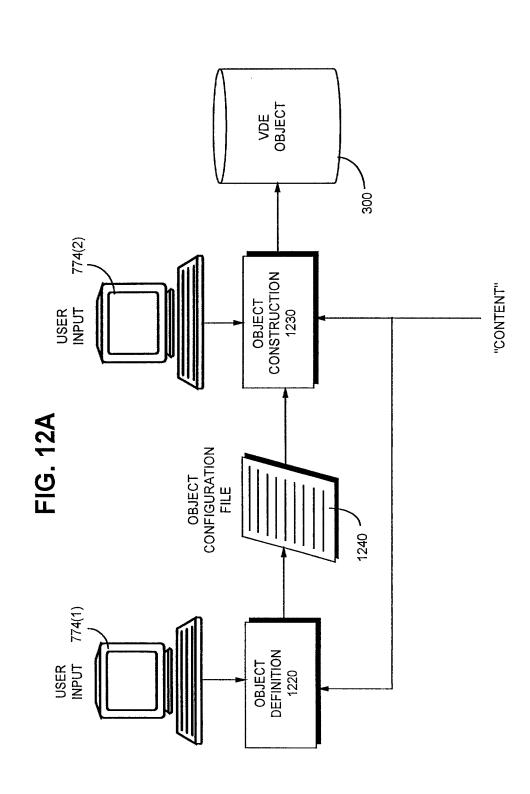


FIG. 13

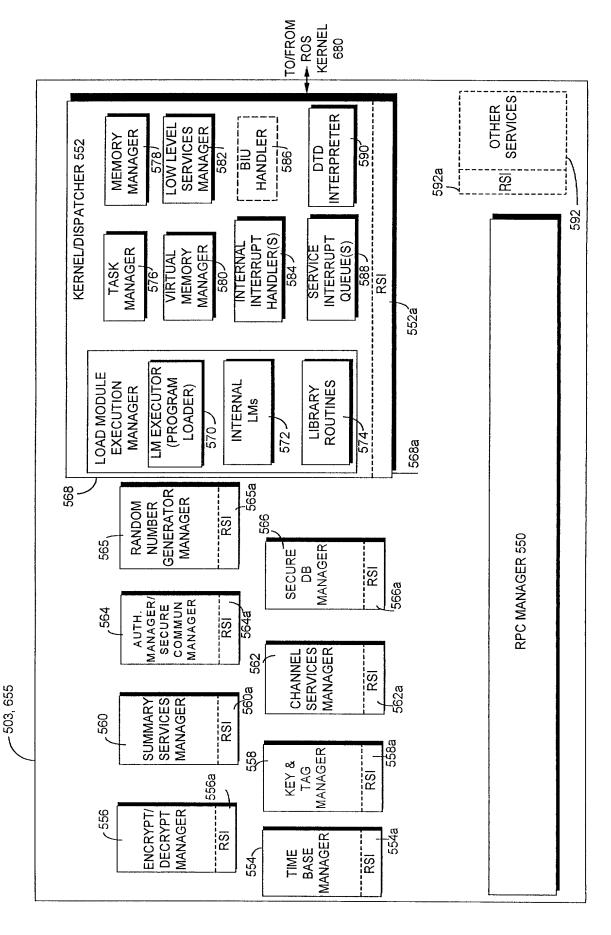


FIG. 14A

DEVICE FIRM WIRE LOW LEVEL				
SERVICES 582				
INITIALIZATION				
POST				
DOWNLOAD CHALLENGE/RESPONSE AND AUTHENTICATION				
RECOVERY				
EEPROM/FLASH MEMORY MANAGER				
KERNEL/DISPATCHER 552				
INITIALIZATION				
TASK MANAGER 576 (SLEEP/AWAKE/CONTEXT SWAP)				
INTERRUPT HANDLER 584 (TIMER/BIU/POWER FAIL/WATCHDOG TIMER/ENCRYPTION COMPLETED)				
BIU HANDLER 586				
MEMORY MANAGER 578				
INITIALIZATION (SETTING MMU TABLES				
ALLOCATE				
DELLOCATE				
VIRTUAL MEMORY MANAGER 580				
SWAP BLOCK PAGING				
EXTERNAL MODULE PAGING				
MEMORY COMPRESS				
RPC AND TABLES 550				
INITIALIZATION				
MESSAGING CODE /SERVICES MANAGER				
SEND/RECEIVE				
STATUS				
RPC DISPATCH TABLE				
RPC SERVICE TABLE				

TIME BASE MANAGER 554				
ENCRYTION/DECRYPTION MANAGER 556				
PK				
BULK				
KEY AND TAG MANAGER 558				
KEY STORAGE IN EEPROM				
KEY LOCATOR				
KEY GENERATOR				
CONVOLUTION ALGORITHM				
SUMMARY SERVICES MANAGER 560				
EVENT SUMMARIES				
BUDGET SUMMARIES				
DISTRIBUTER SUMMARY SERVICES				
CHANNEL SERVICES MANAGER 562				
CHANNEL HEADERS				
CHANNEL DETAILS				
LOAD MODULE EXECUTION SERVICES 568				
AUTHENTICATION MANAGER/SECURE COMMUNICATION MANAGER 564				
DATABASE MANAGER 566				
MANAGEMENT FILE SUPPORT				
TRANSACTION AND SEQUENCE NUMBER SUPPORT				
SRN/ HASH				
DTD INTERPRETER 590				
LIBRARY ROUTINES 574 I/O CALLS(STRING SEARCH ETC.)				
MISC. ITEMS THAT ARE PROBABLY				
LIBRARY ROUTINES				
TAG CHECKING,MD5,CRC'S				
INTERNAL LM'S 572 FOR BASIC METHODS				
METER LOAD MODULE(S)				
BILLING LOAD MODULE(S)				
BUDGET LOAD MODULE(S)				
AUDIT LOAD MODULE(S)				
READ OBJECT LOAD MODULE(S)				
WRITE OBJECT LOAD MODULE(S)				
OPEN OBJECT LOAD MODULE(S)				
CLOSE OBJECT LOAD MODULE(S)				



FIG. 14B

•

PUBLIC KEY AND PRIVATE KEY, SYSTEM ID, AUTHENTICATION CERTIFICATE, VDE SYSTEM PUBLIC KEY, PRIVATE DES KEY

TOP LEVEL KEYS FOR OBJECTS

TOP LEVEL BUDGET INFO

METER SUMMATION VALUES

KEY RECORDS FOR BUDGET RECORDS, AUDIT RECORDS, STATIC MANAGEMENT RECORDS, UPDATED MANAGEMENT RECORDS, ETC.

DEV	ICE	DA	TA	TA	BL	Е

SITE ID

TIME

ALARMS

TRANSACTION/SEQUENCE #'S

MISCELLANEOUS

MEMORY MAP

MAP METERS

LM/UDT TABLE

TASK MANAGER 576

CHANNEL(S)

SUMMARY SERVICES 560

SECURE DATABASE TAGS

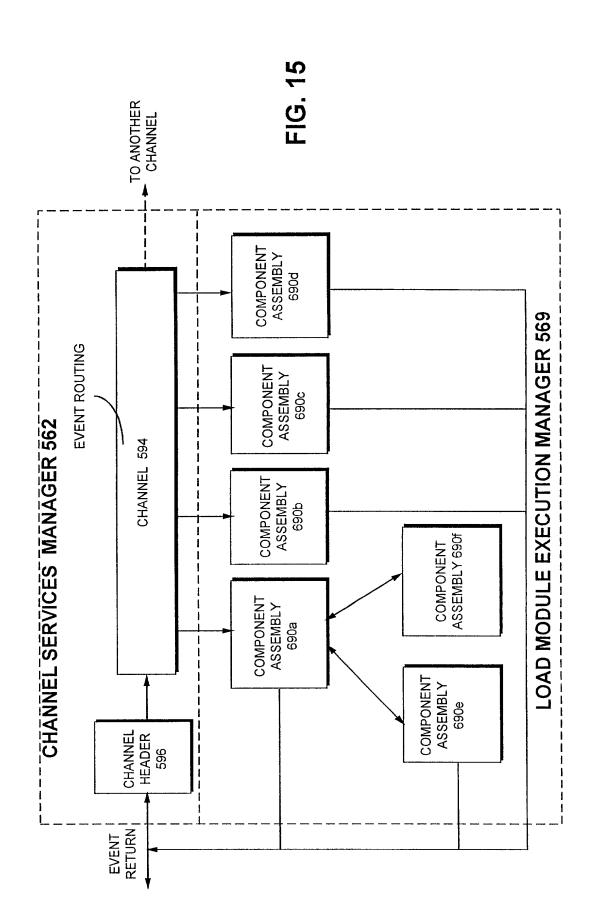
SRN ENTRIES

HASH ENTRIES



FIG. 14C

STACK					
CHANNEL SWAP BLOCK	CHANNEL LM				
	CHANNEL HEADER & D1				
CONTROL SWAP BLOCK					
CONTROL SWAF BLOCK	CONTROL LM				
	CONTROL D1				
	COMMIT LM				
	COMMIT D1, D2, D3				
EVENT SWAP BLOCK	EVENT LM				
	MAP TABLE (SINGLE) D1				
METER SWAP BLOCK					
	METER LM				
	METER UDE DELTA, DELTA'				
	METER TRAIL LM				
	METER TRAIL UDE				
	DELTA,DELTA'				
BUDGET SWAP BLOCK					
	METER LIDE DELTA DELTA				
	METER UDE DELTA, DELTA' METER TRAIL LM				
	METER TRAIL UDE				
	DELTA,DELTA'				
BILLING SWAP BLOCK					
	BILLING LM				
	METER UDE				
	BUDGET UDE				
	BILLING TABLE UDE				
	BILLING TRAIL LM				
	BILLING TRAIL UDE DELTA'				



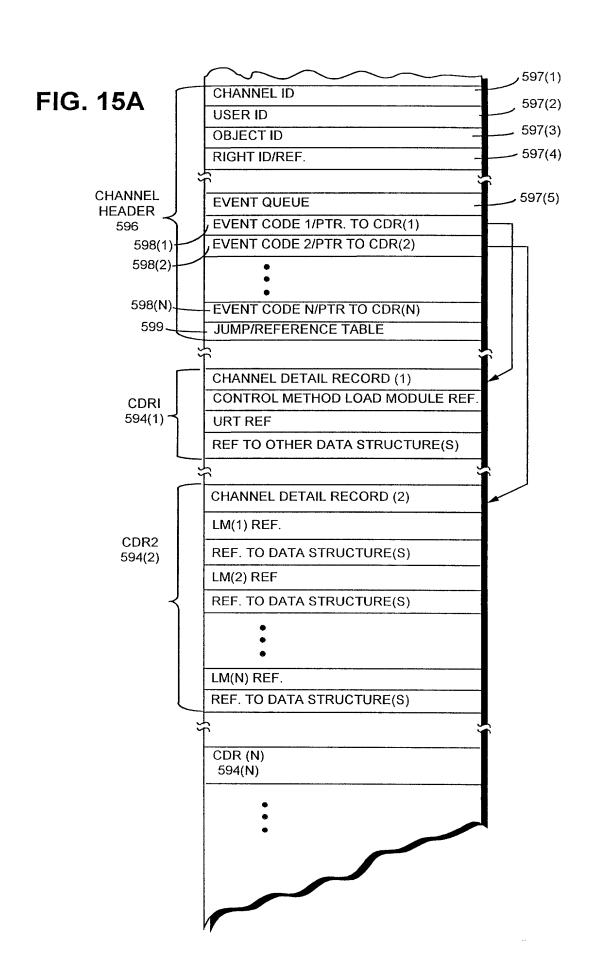


FIG. 15B

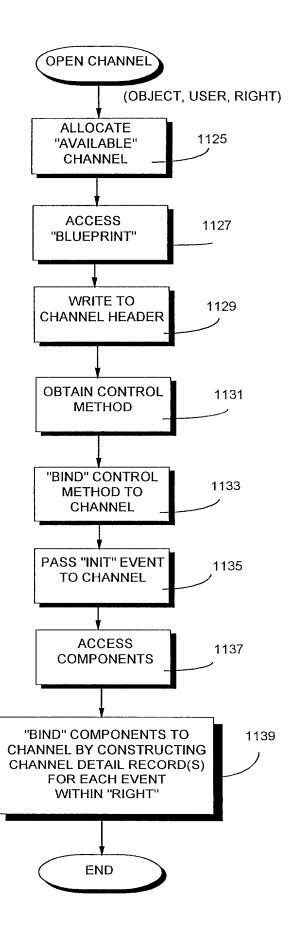
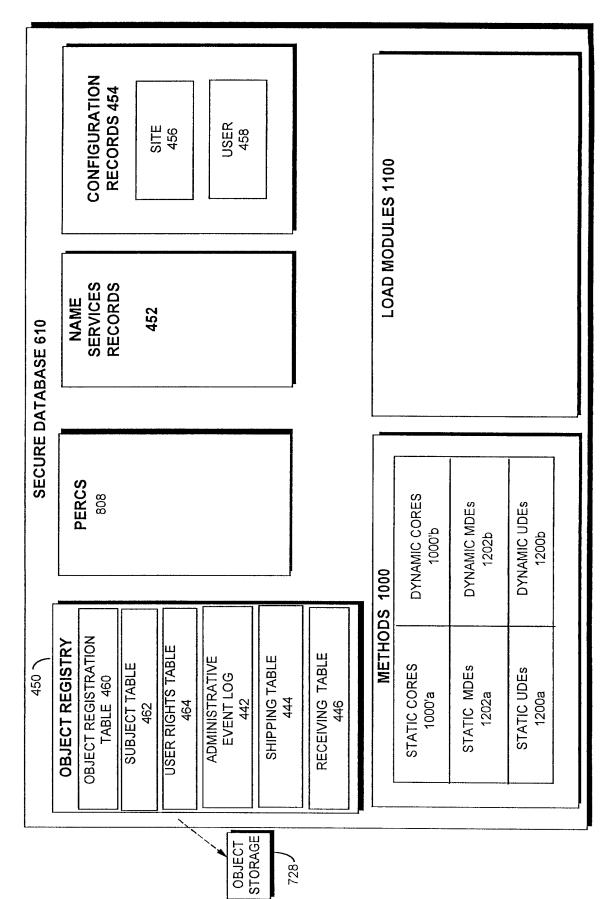


FIG. 16



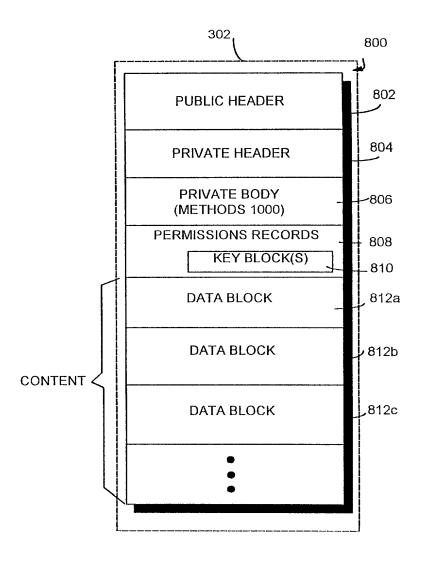


FIG. 17

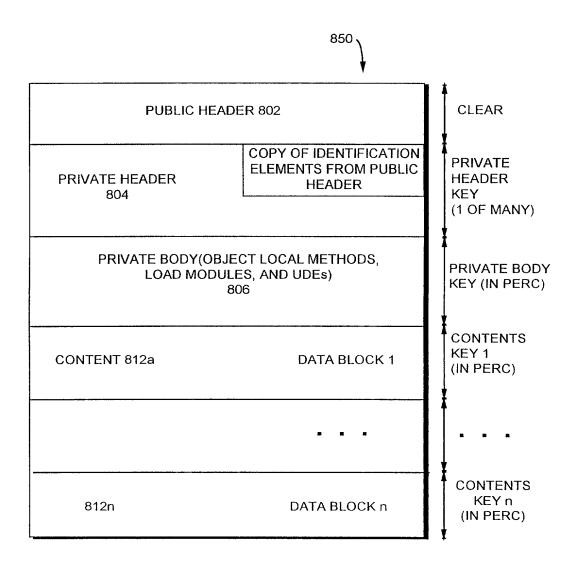


FIG. 18

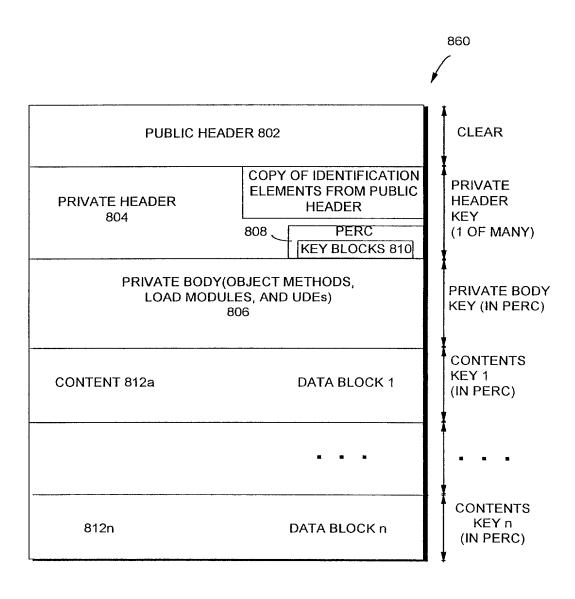


FIG. 19

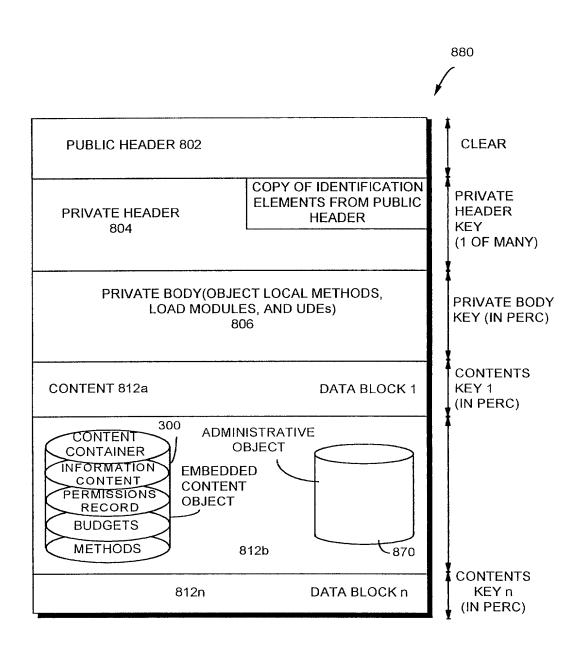


FIG. 20

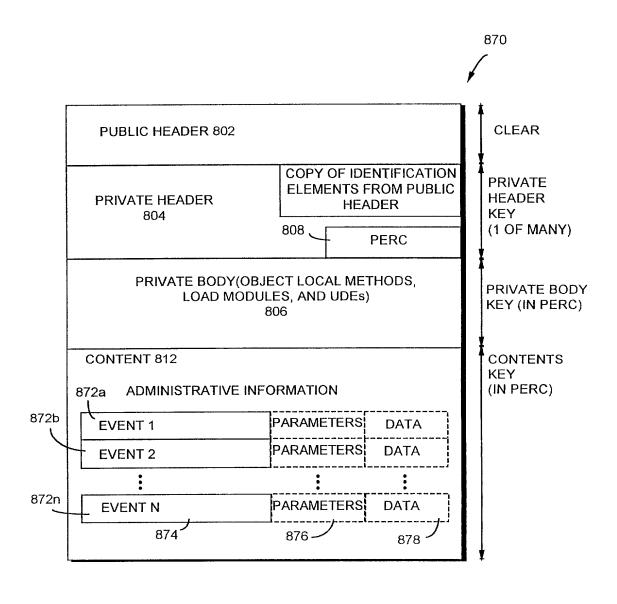


FIG. 21

FIG. 22

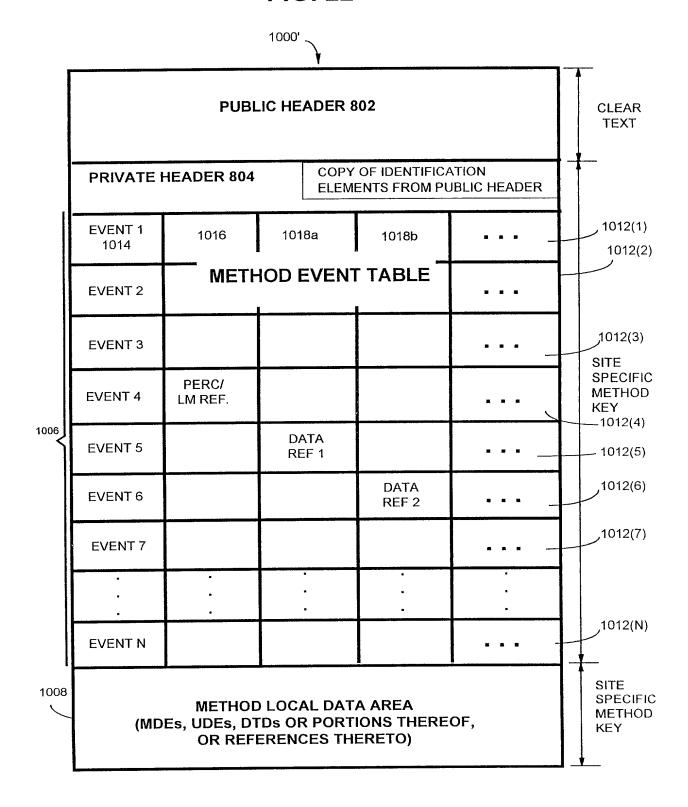


FIG. 23

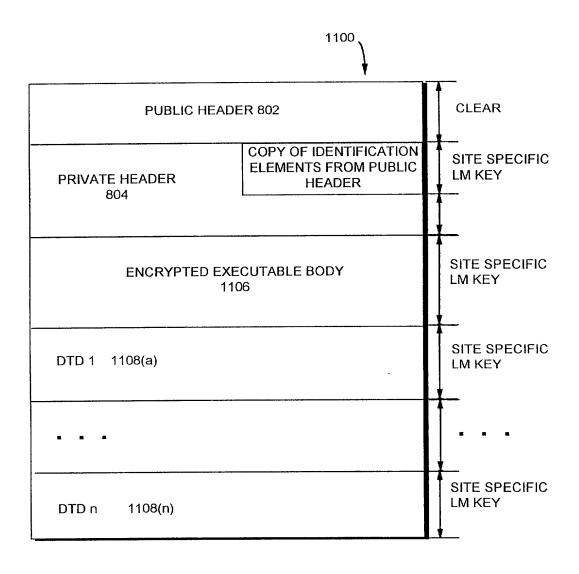


FIG. 24

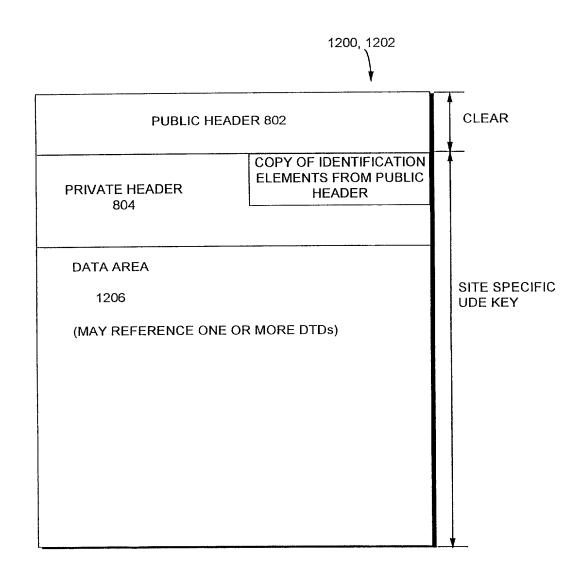


FIG. 25A

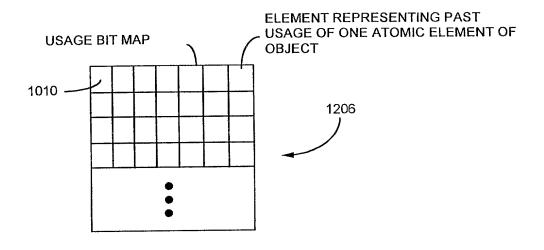


FIG. 25B

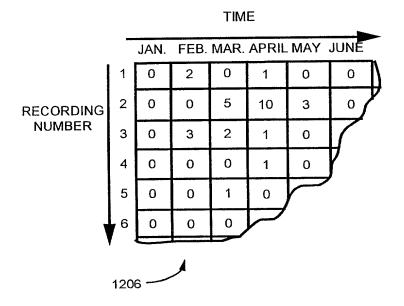
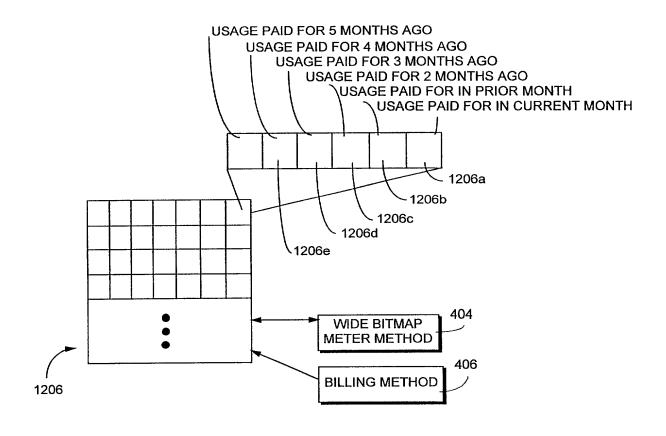


FIG. 25C



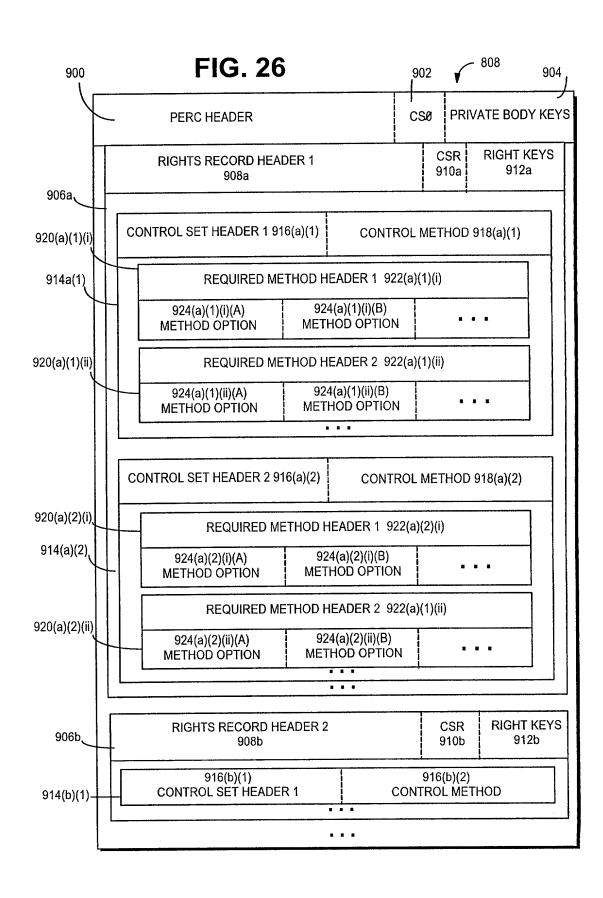


FIG. 26A

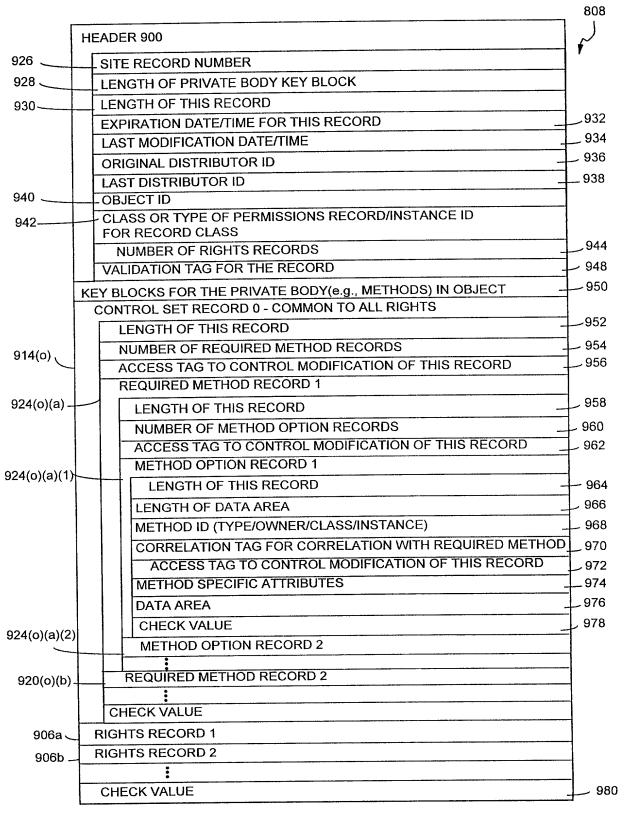


FIG. 26B

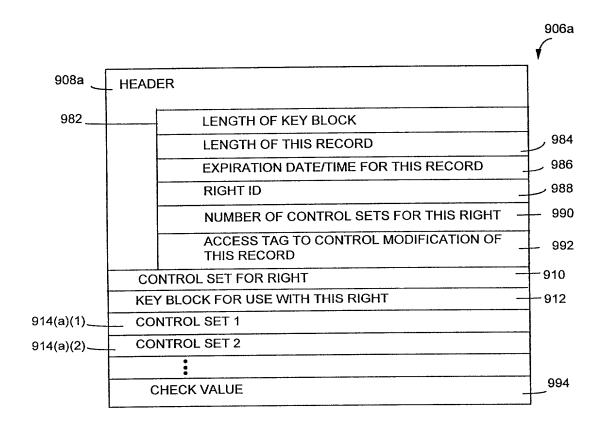


FIG. 27

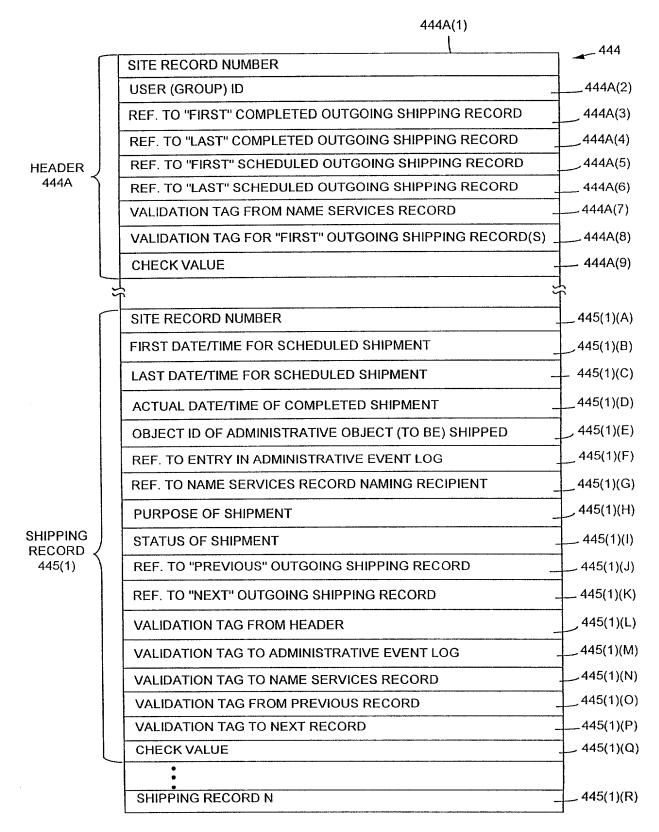


FIG. 28

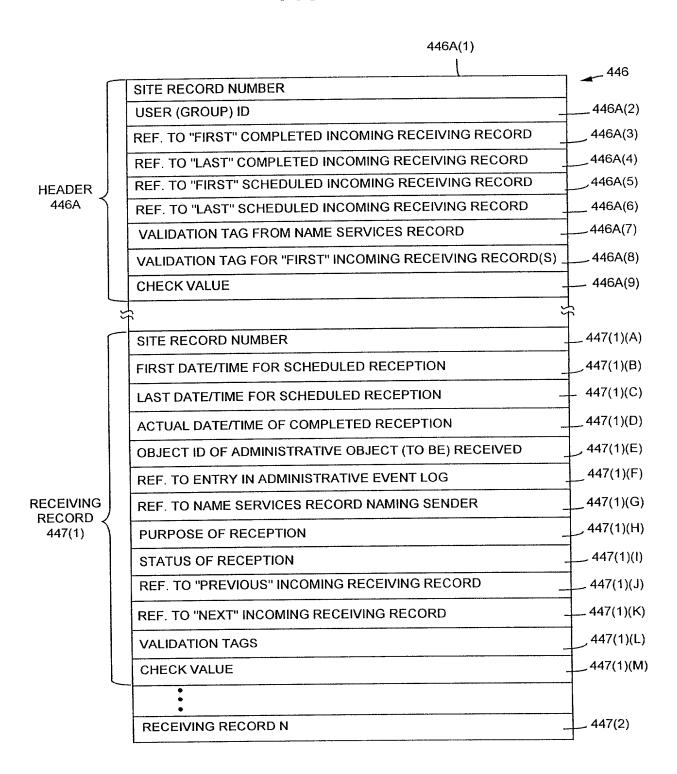
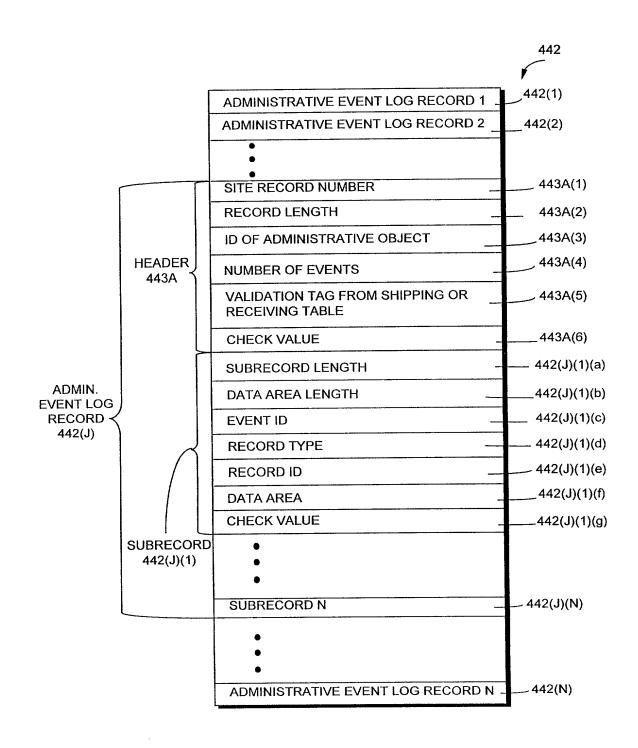
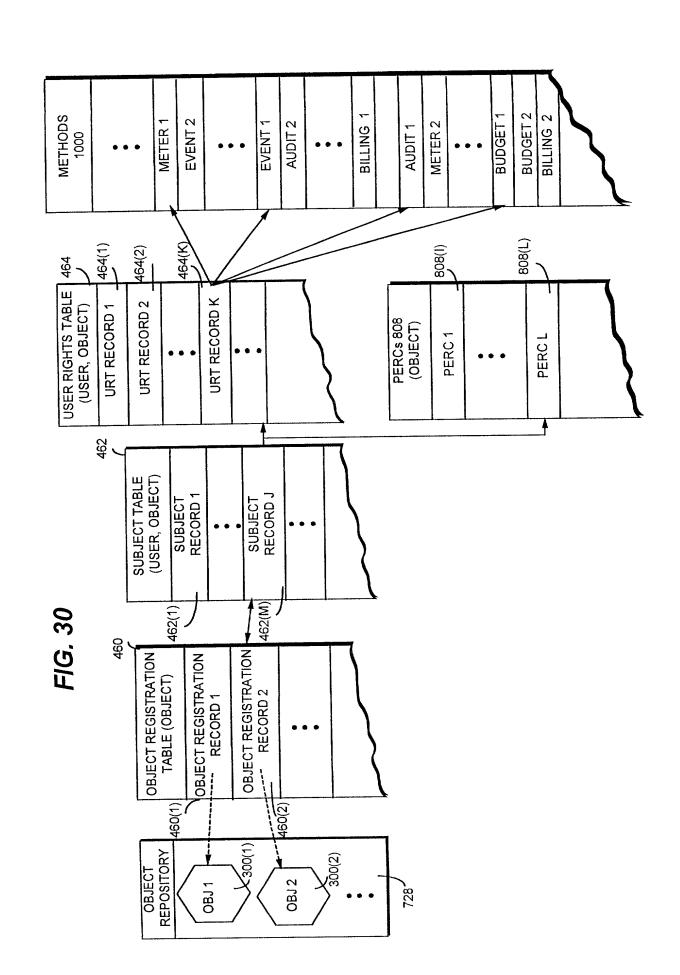


FIG. 29





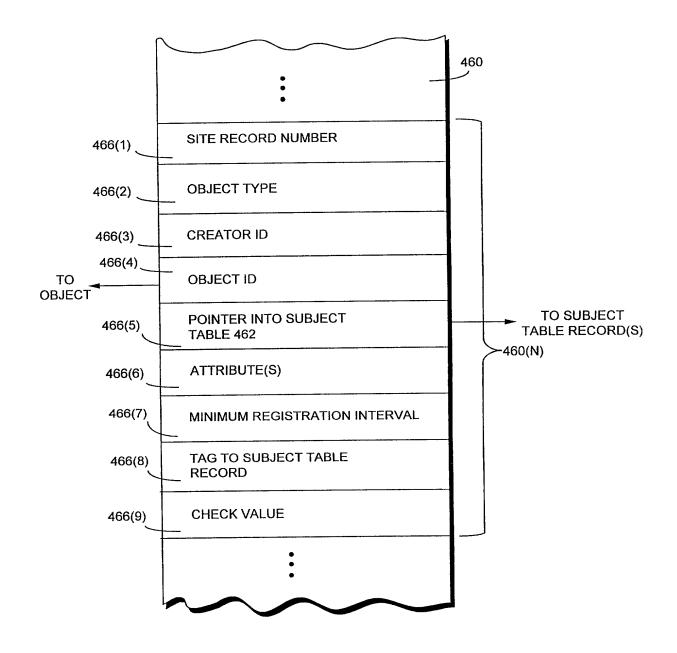
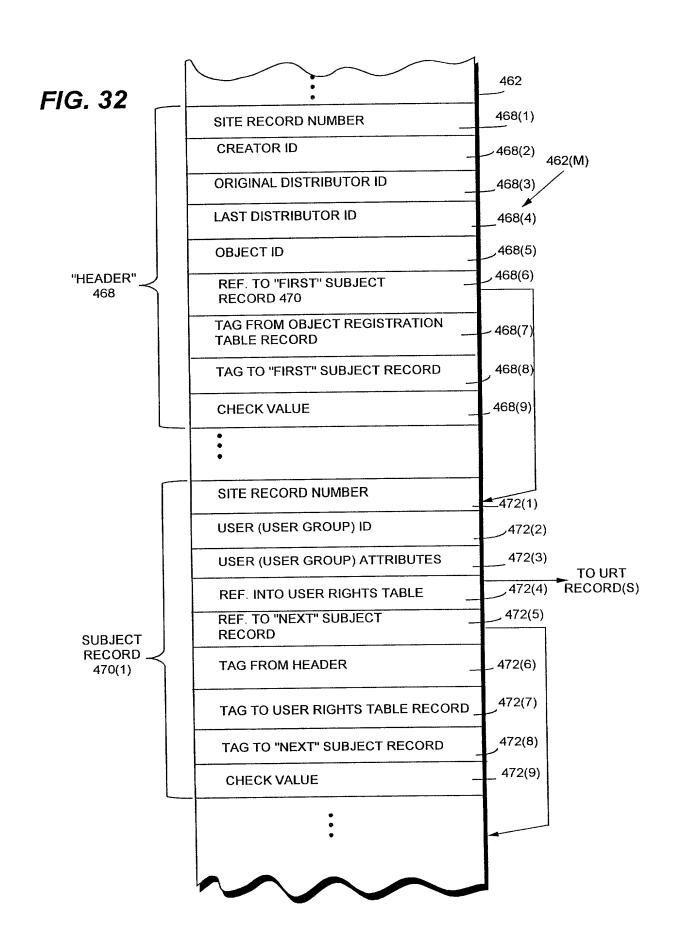
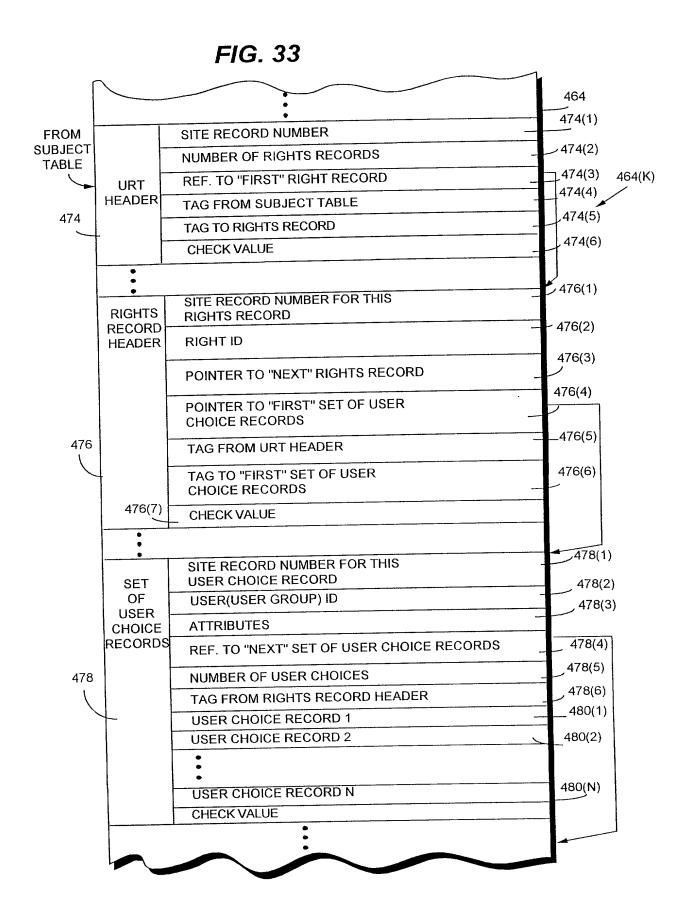


FIG. 31





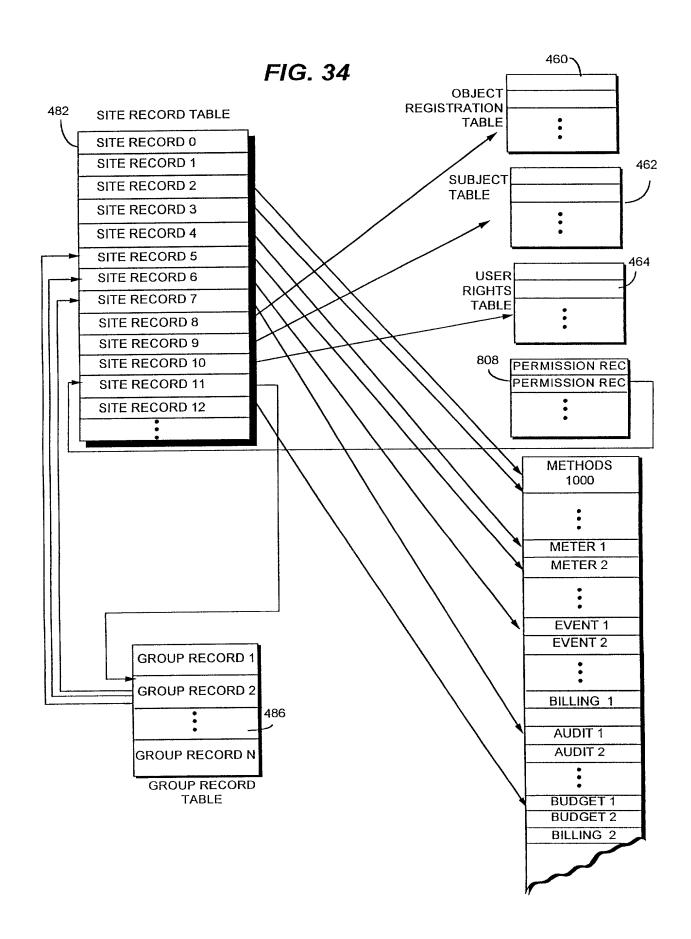


FIG. 34A

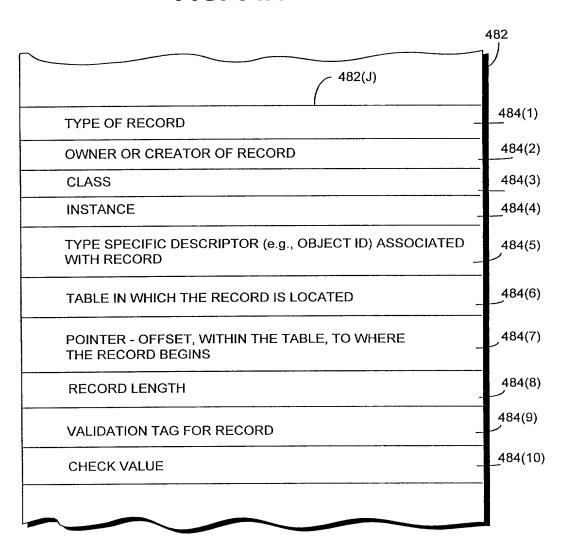
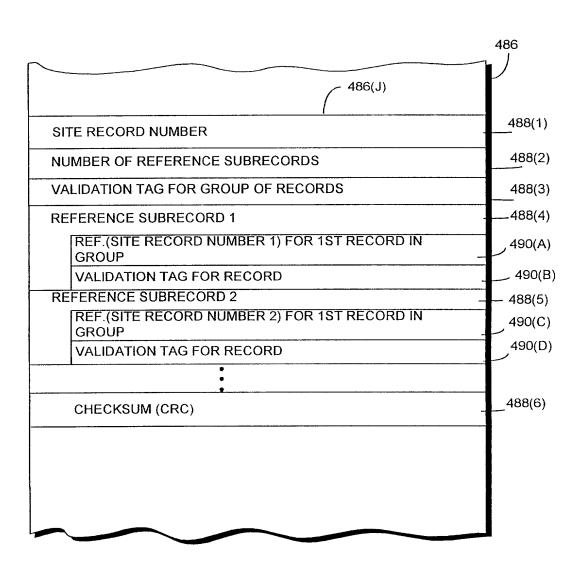
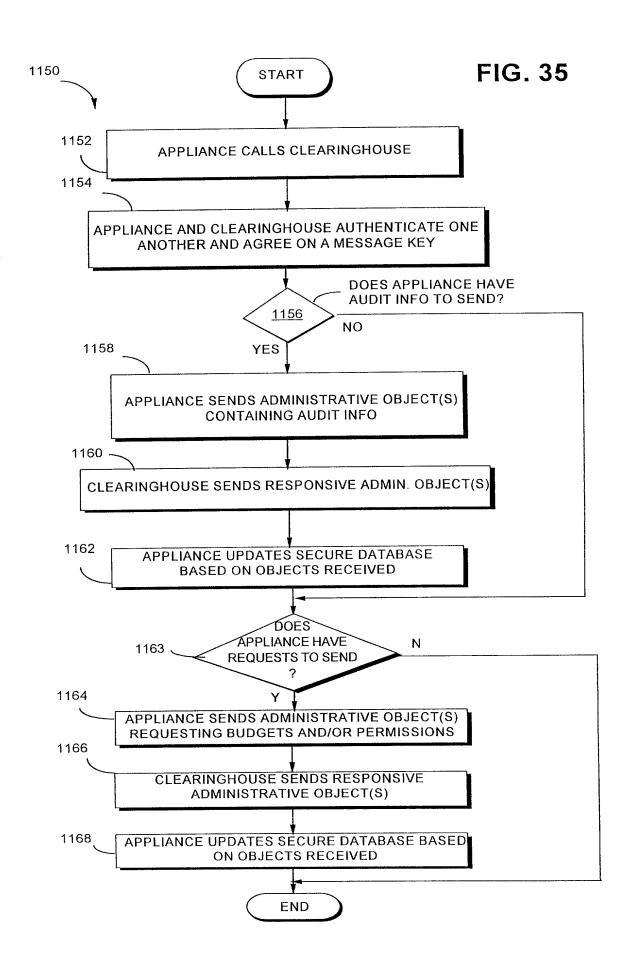
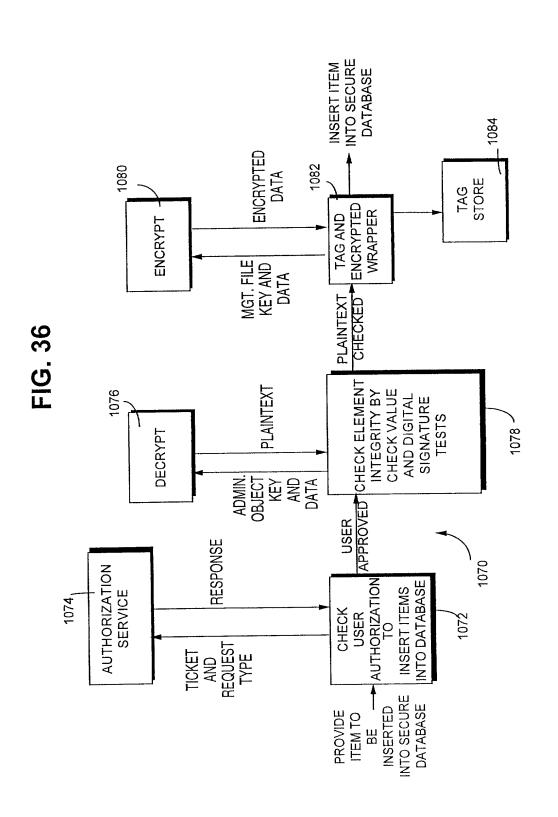


FIG. 34B







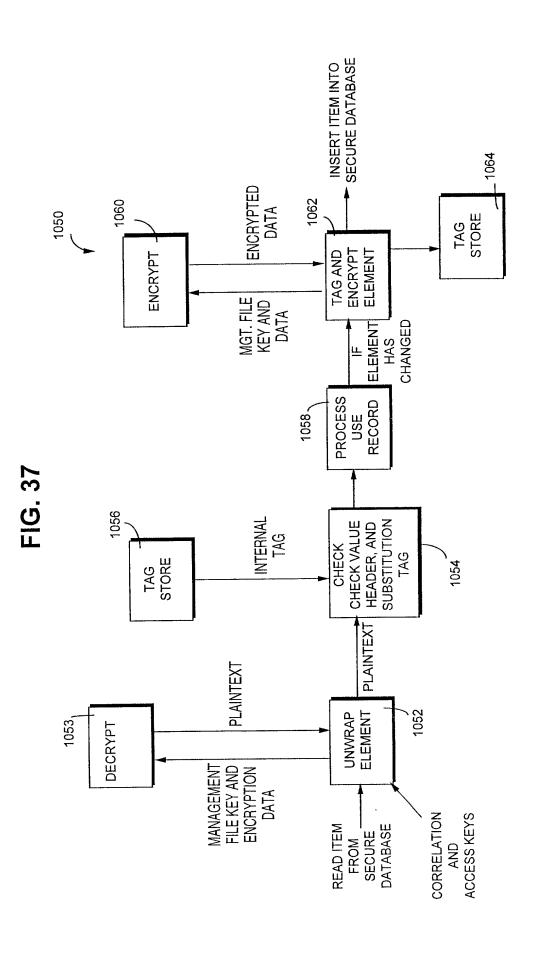
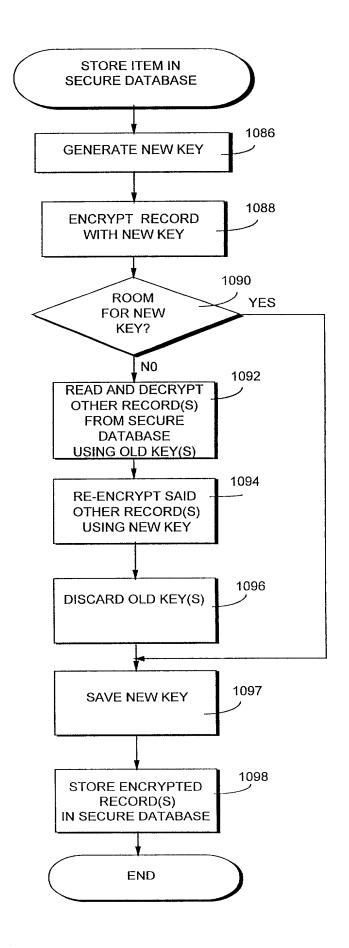
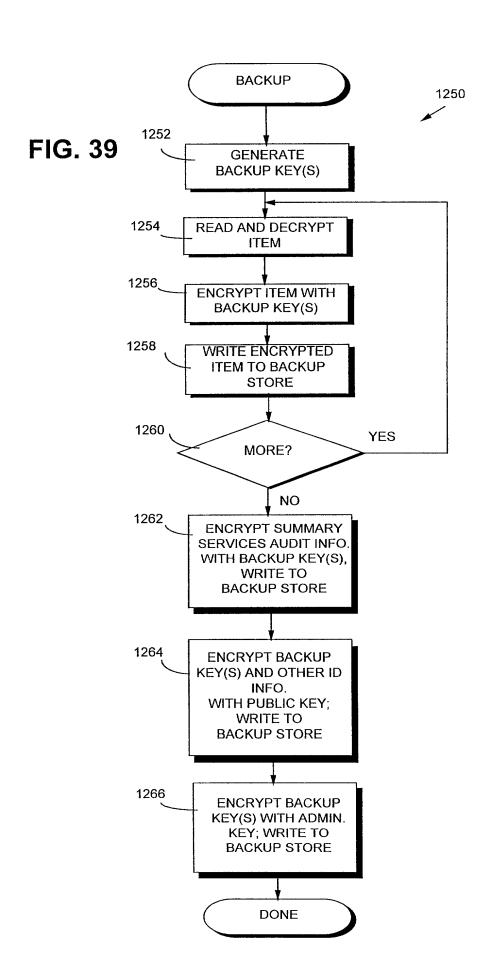
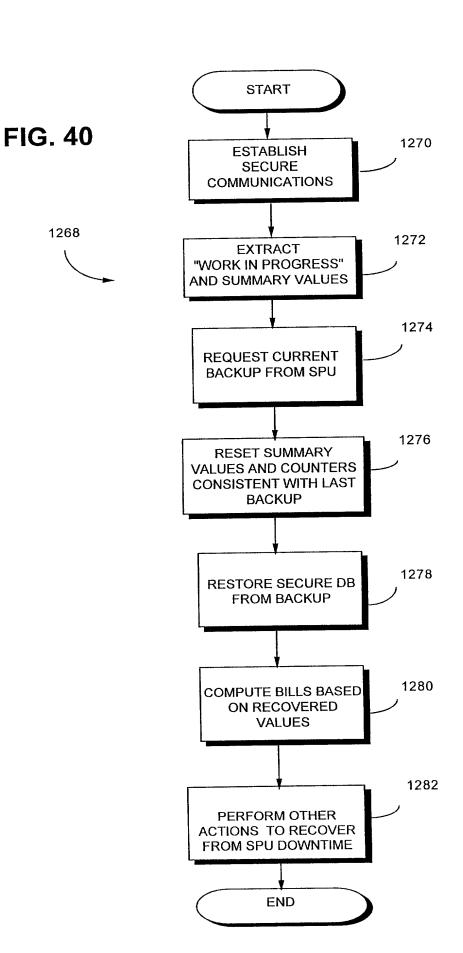


FIG. 38







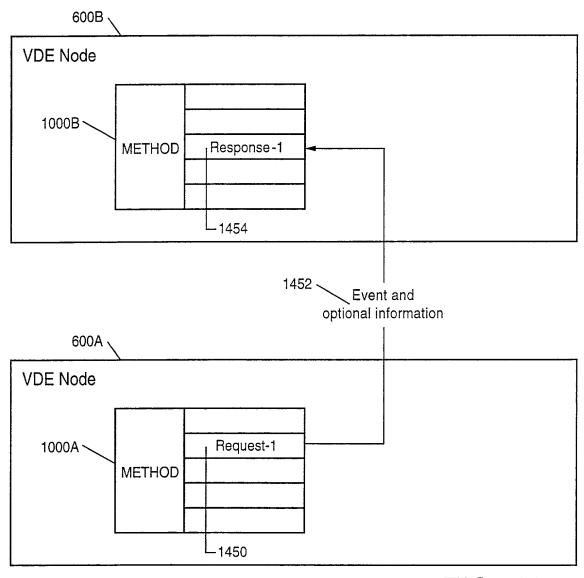


FIG. 41a

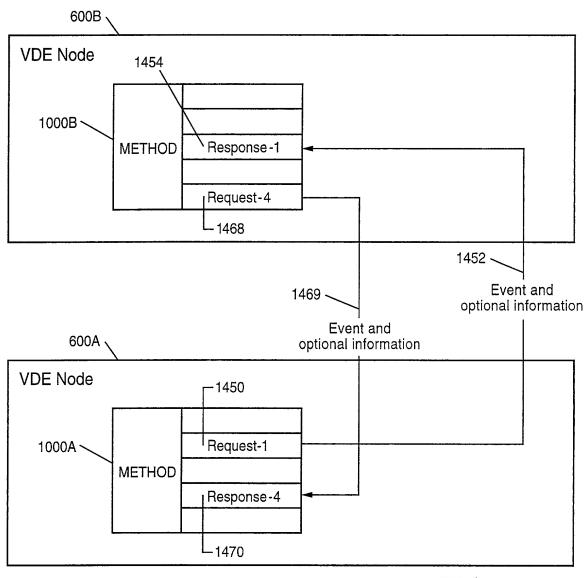
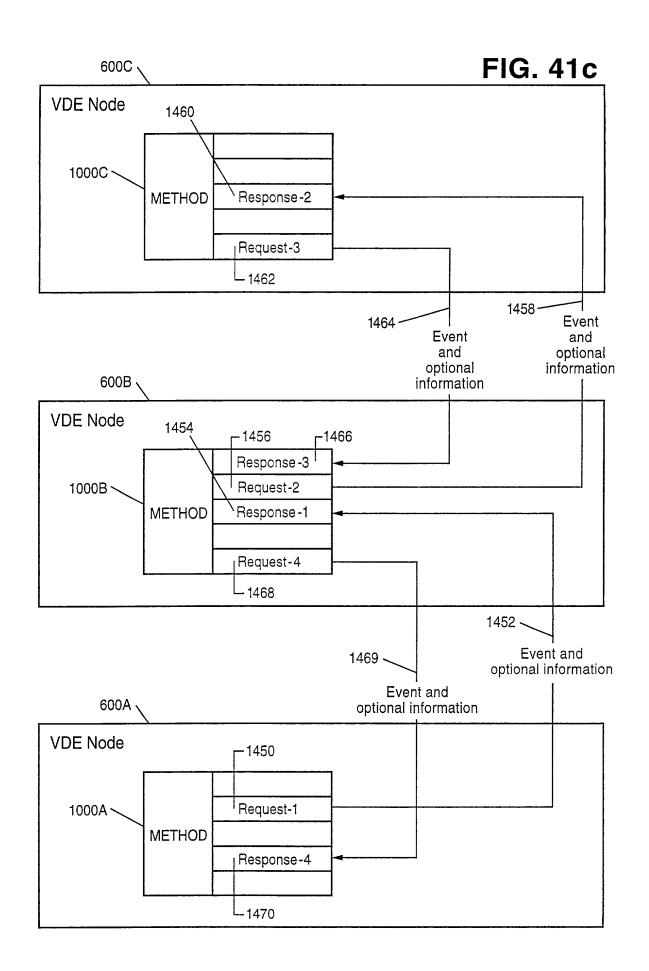
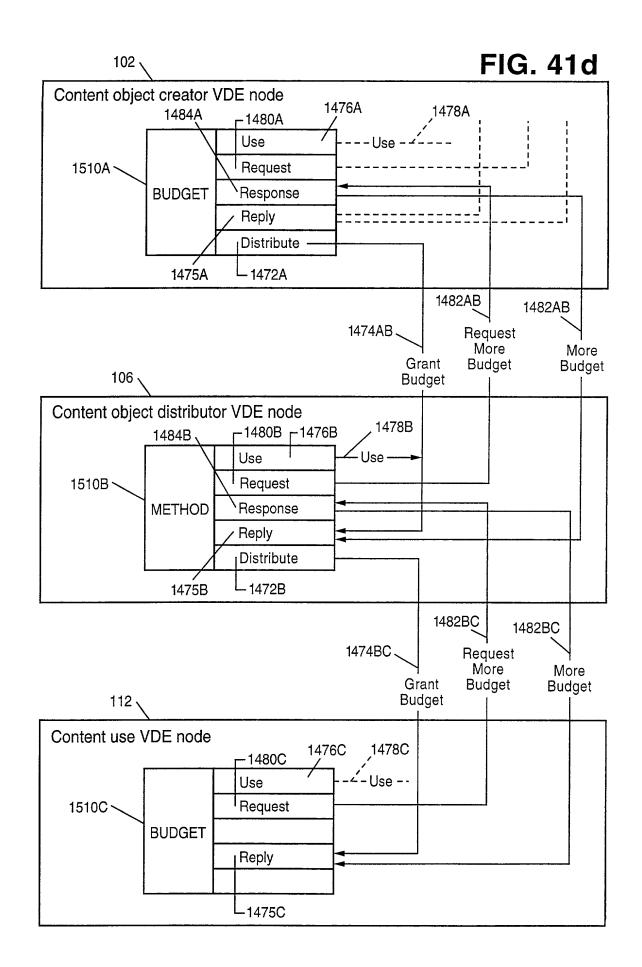
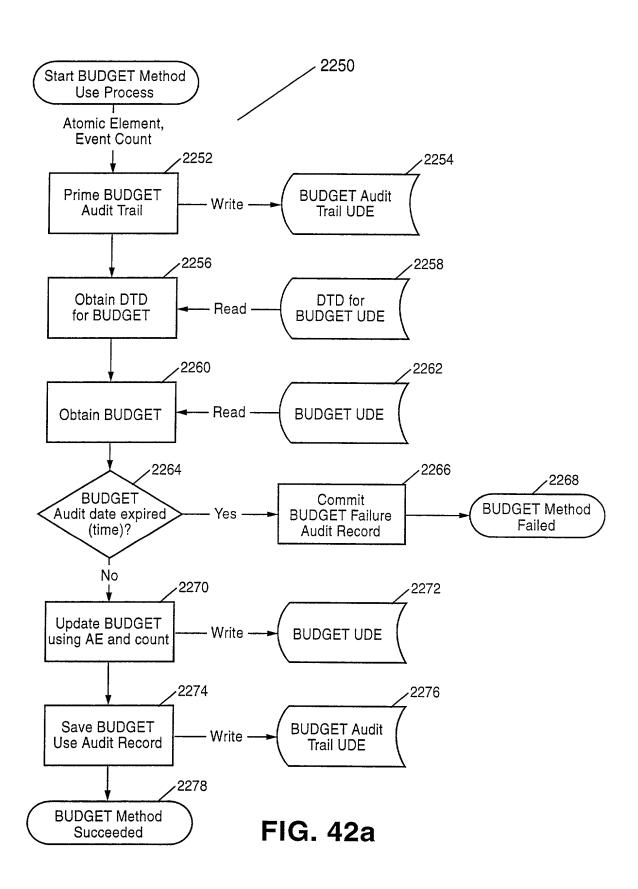
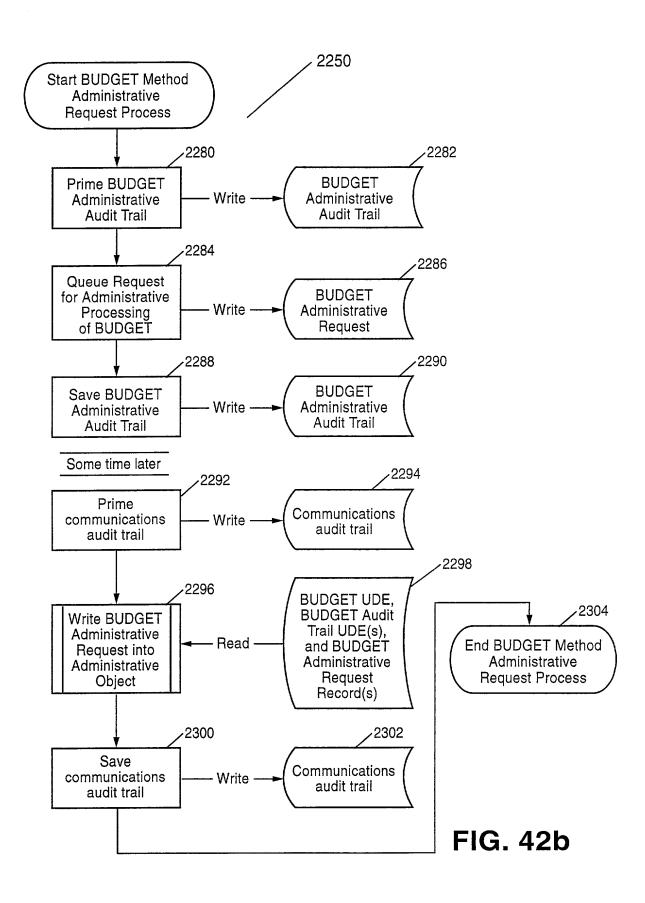


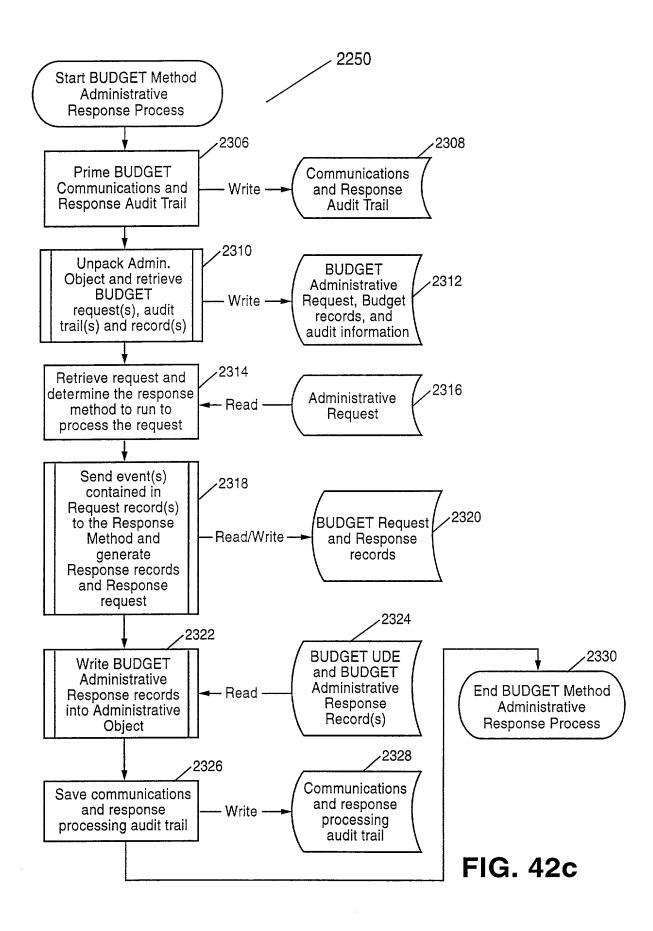
FIG. 41b

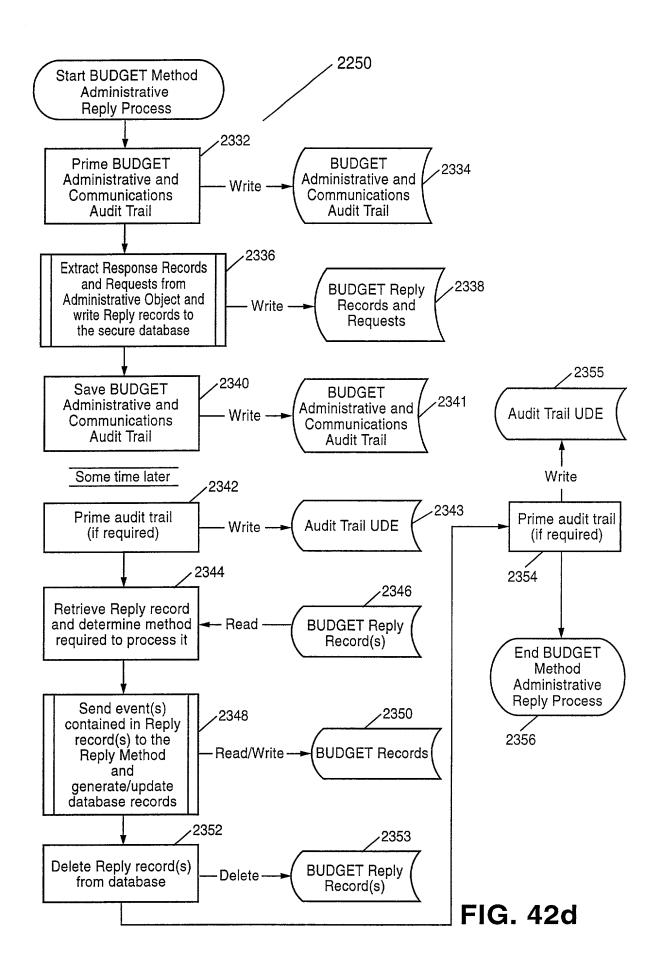












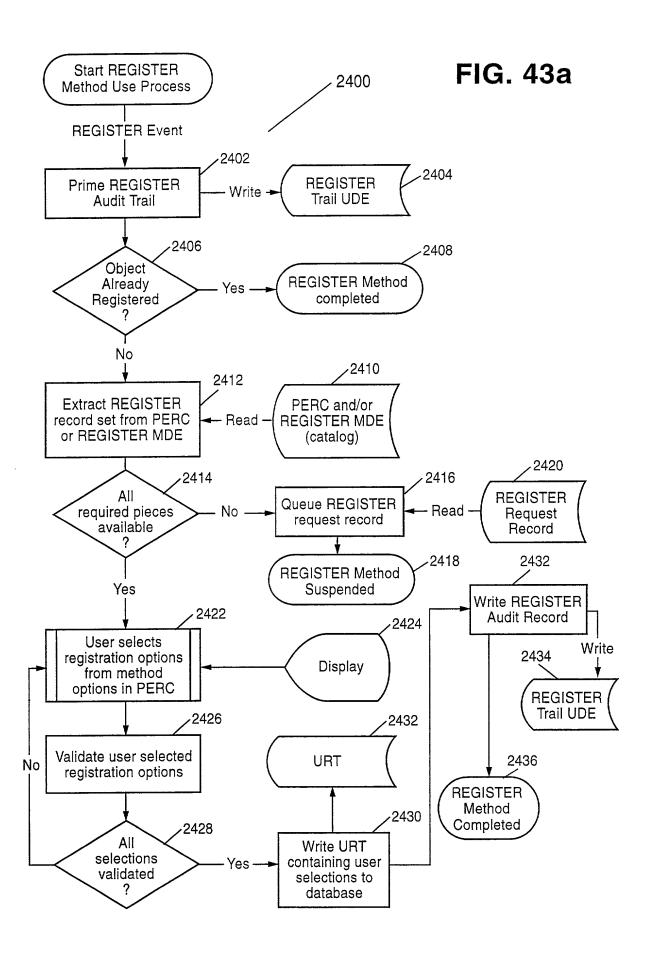
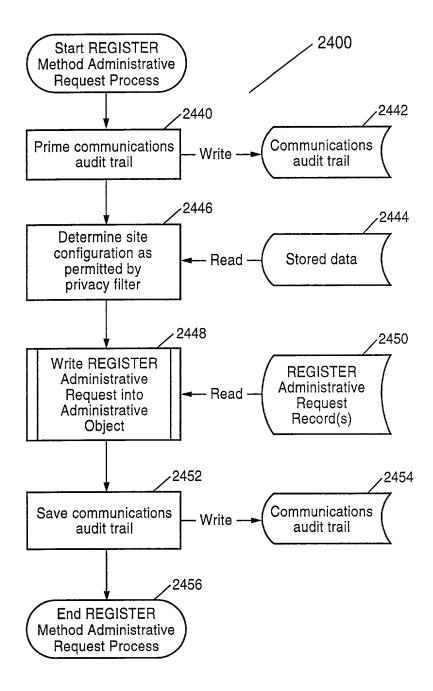
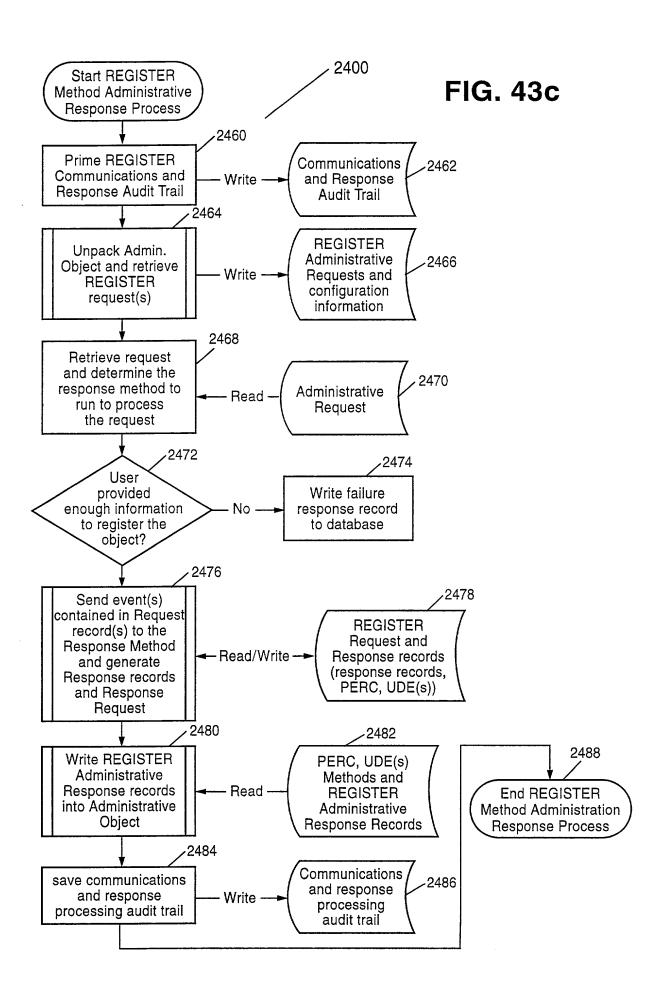
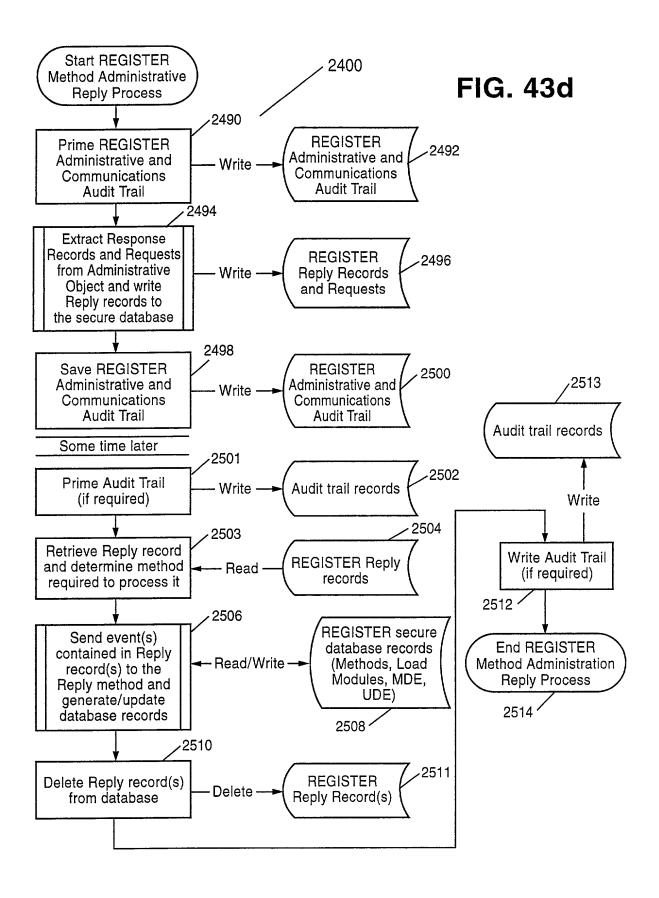
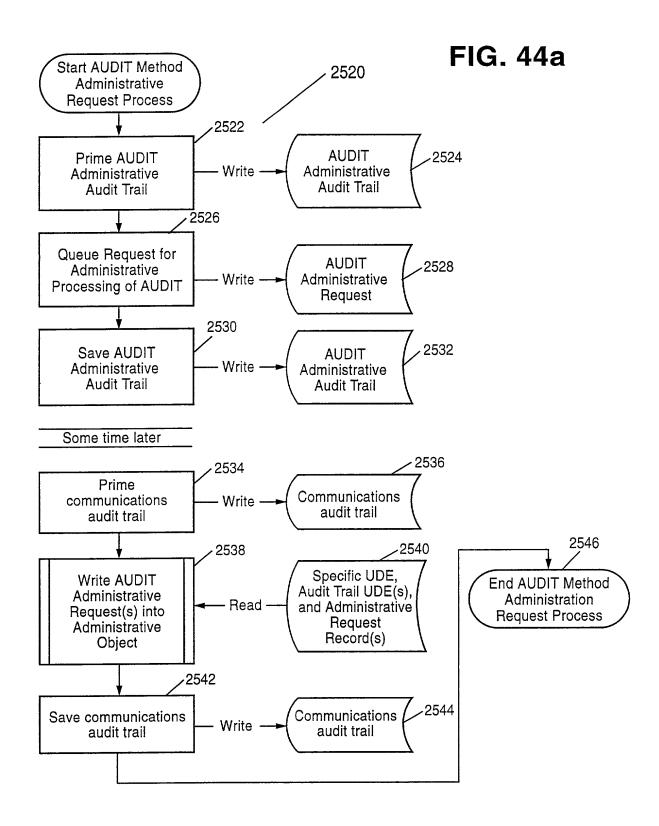


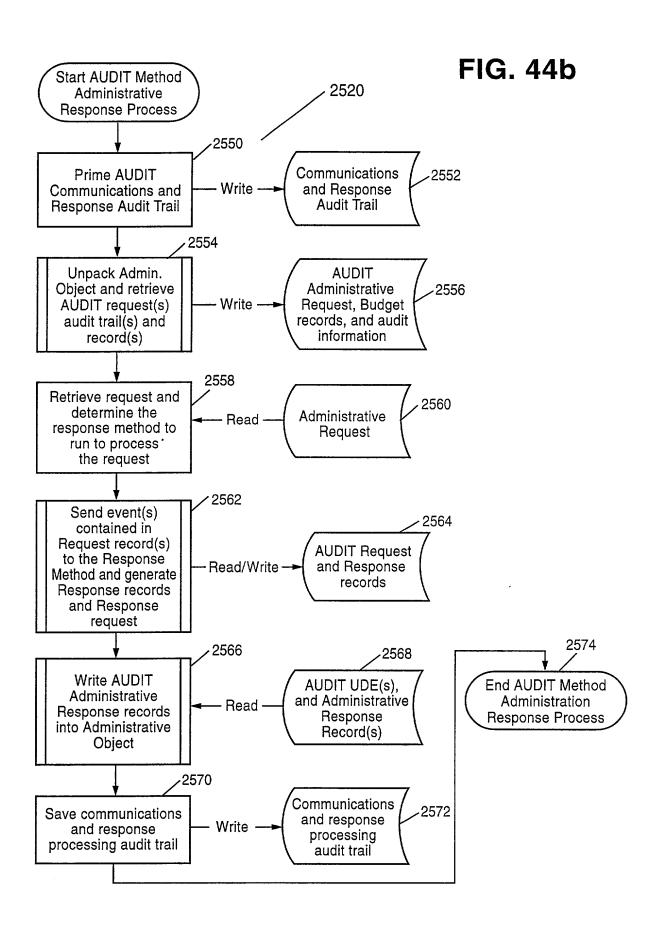
FIG. 43b











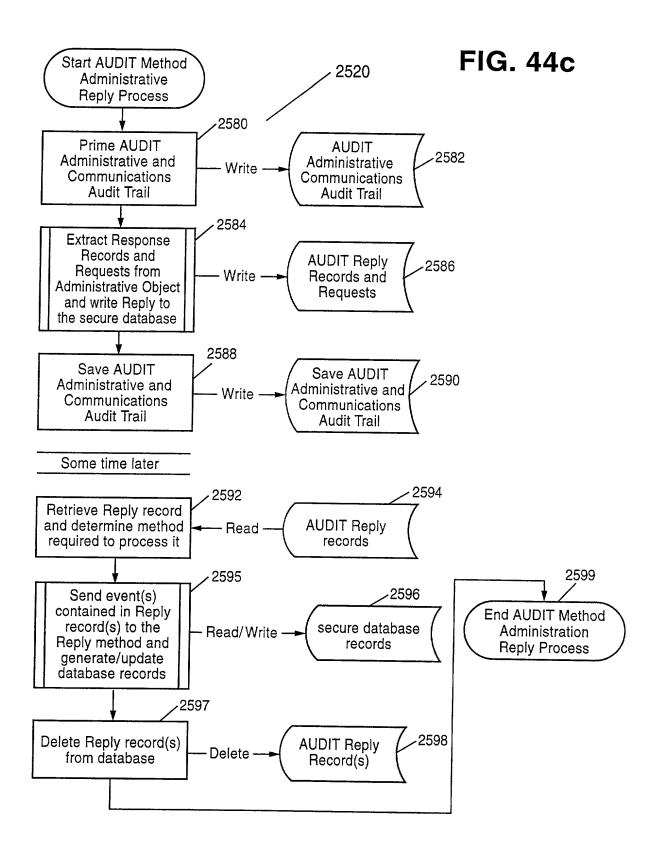


FIG. 45

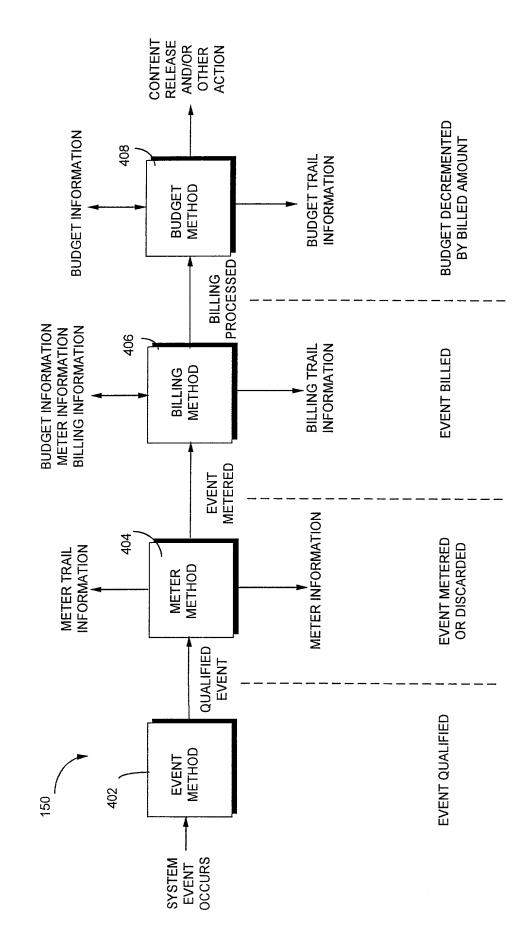
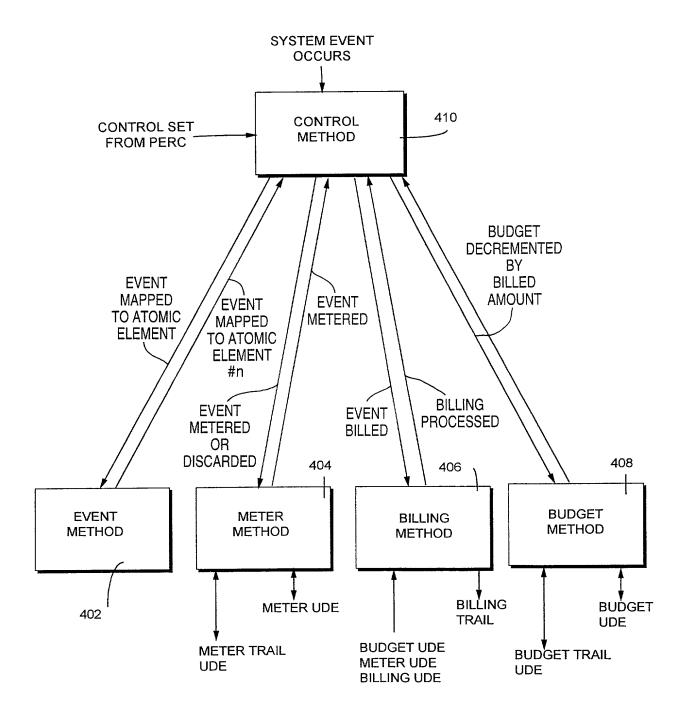
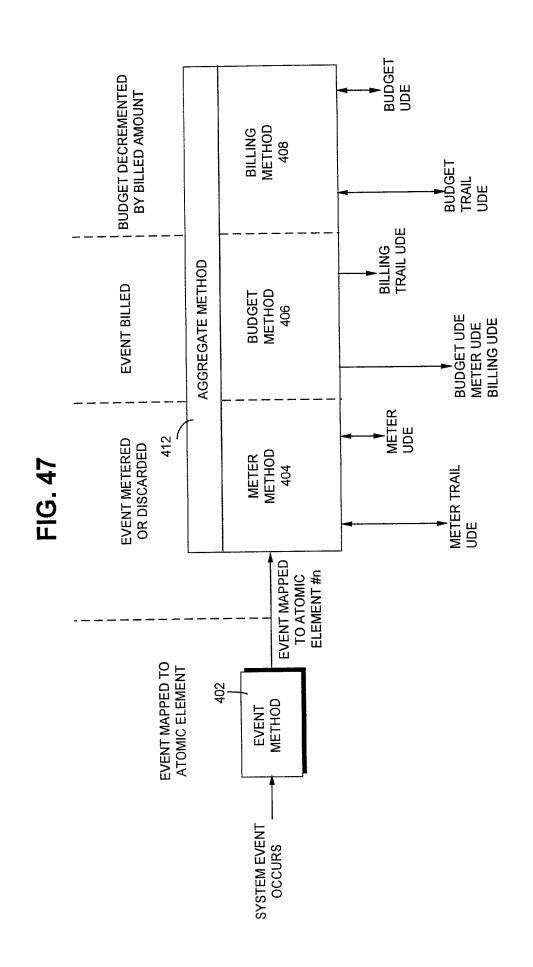
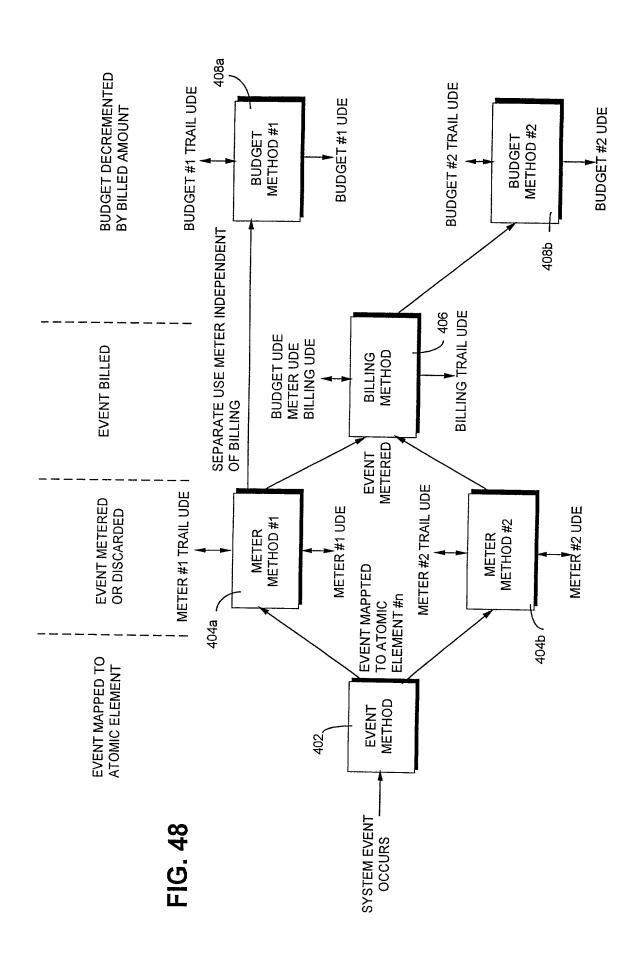
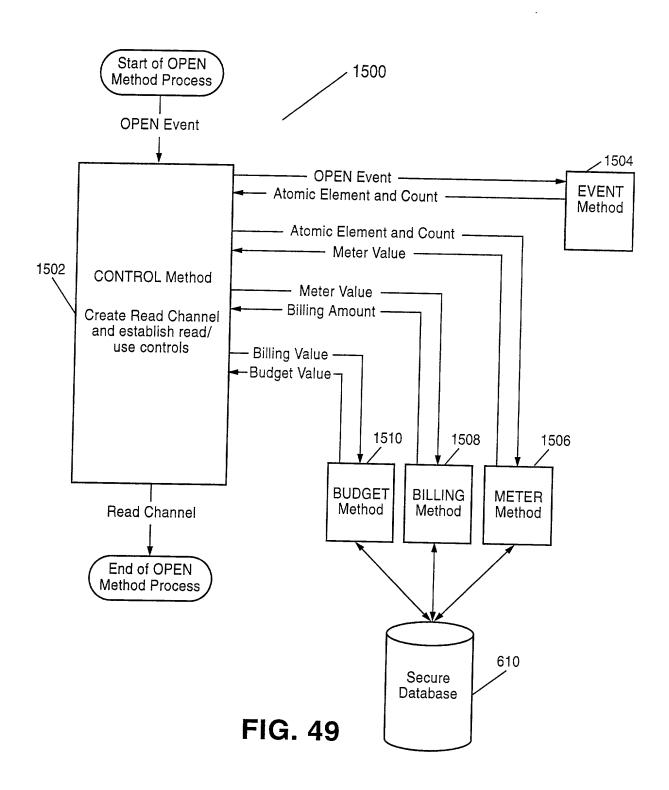


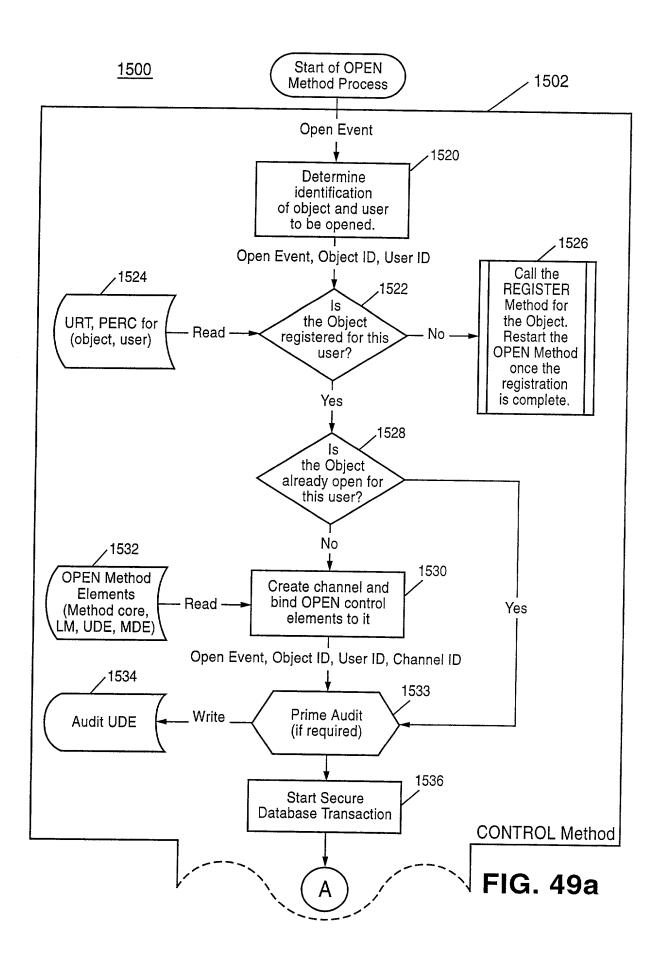
FIG. 46

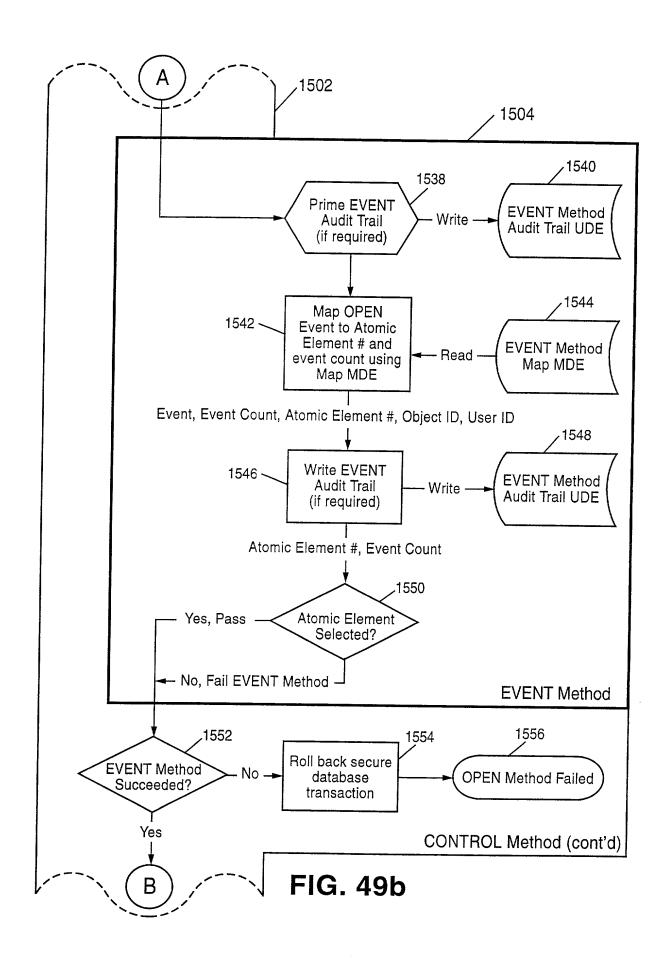


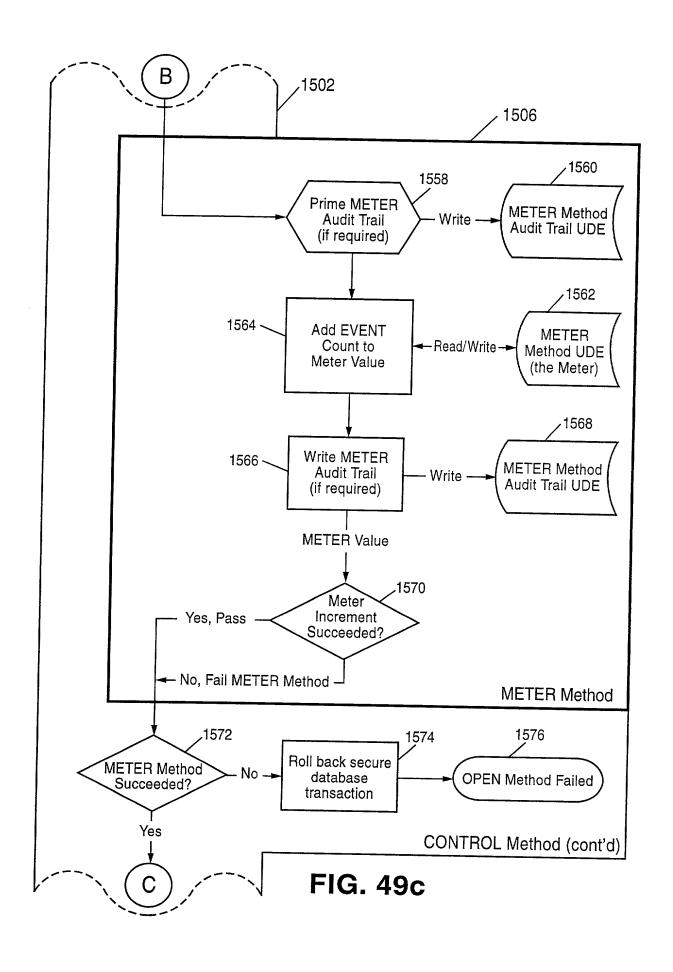


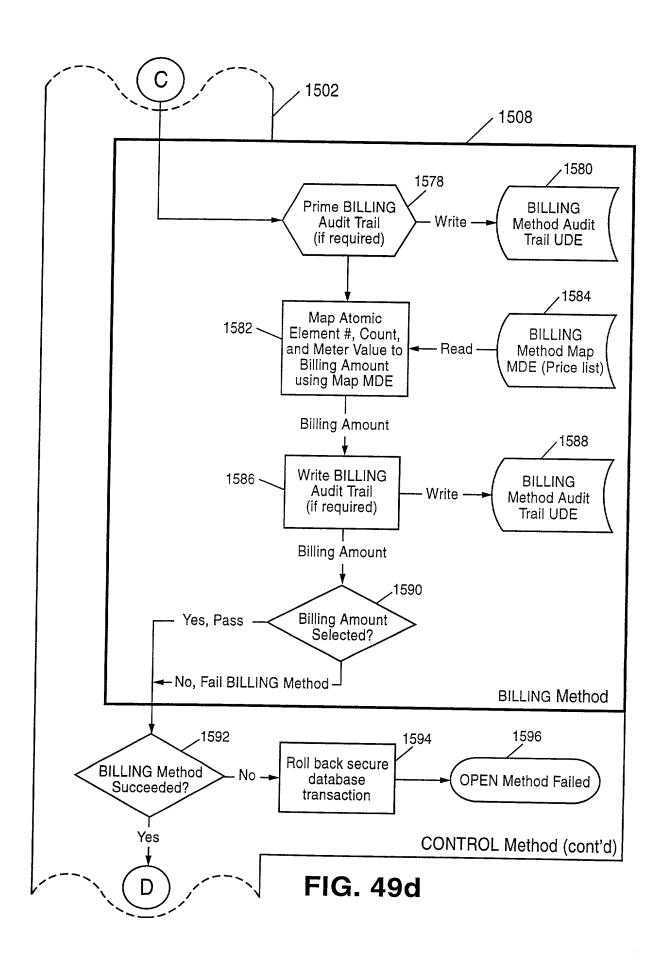


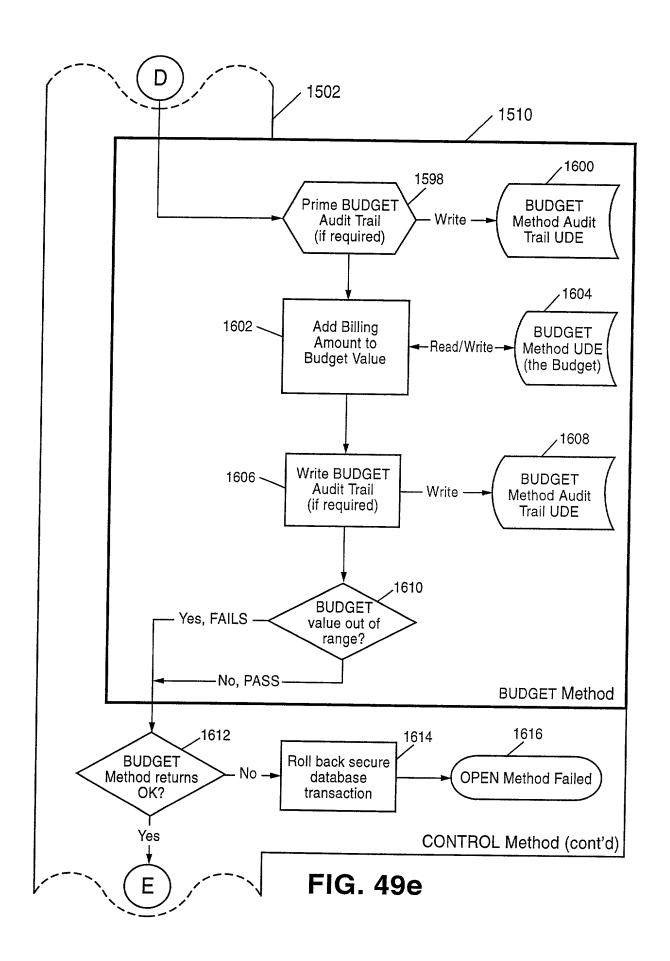


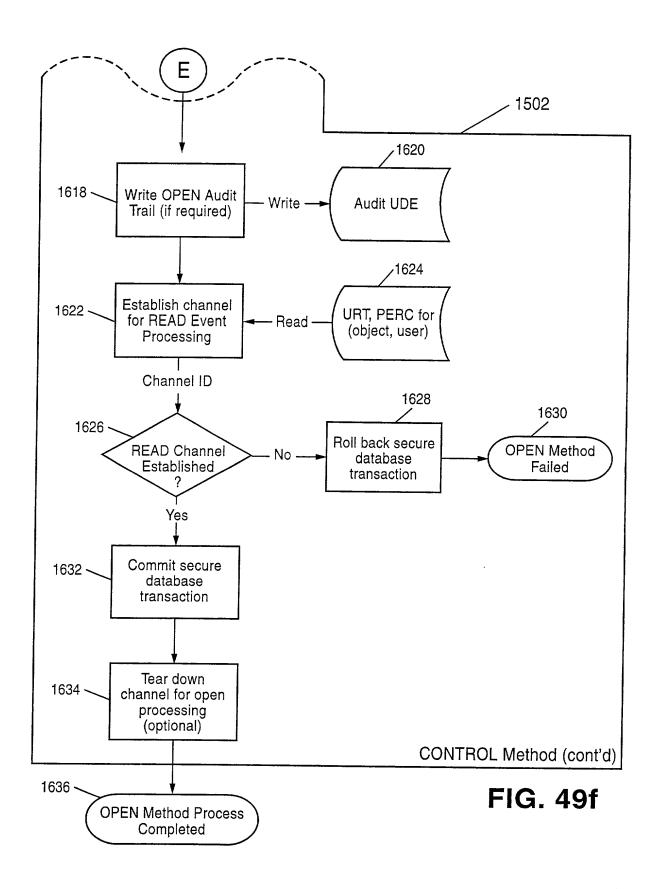


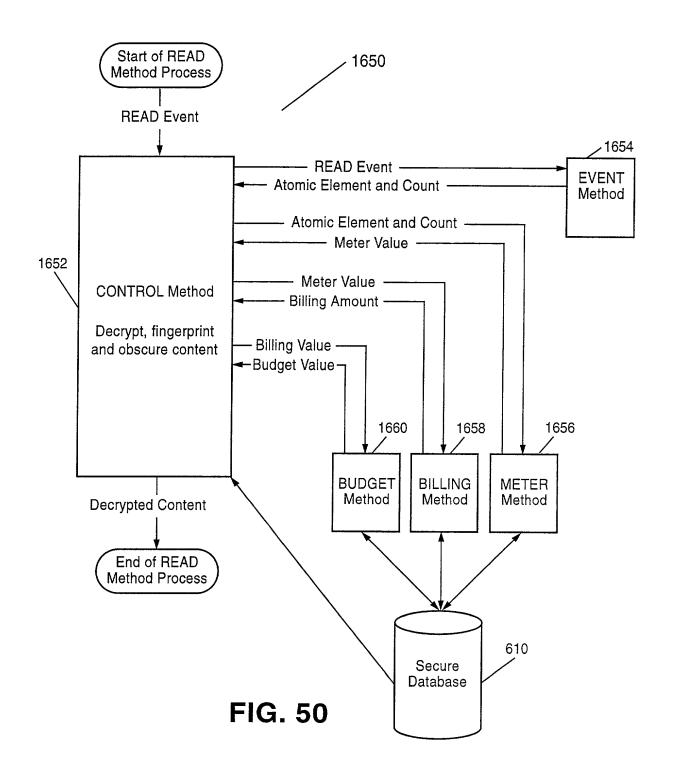


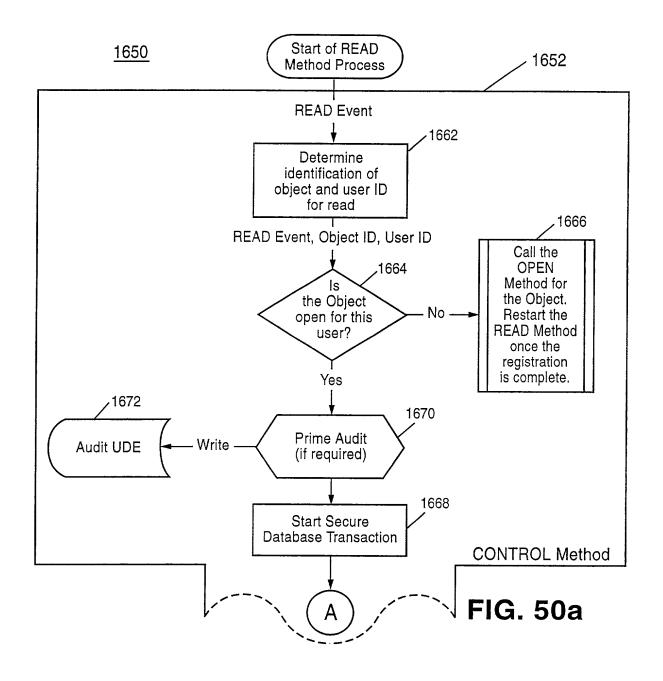


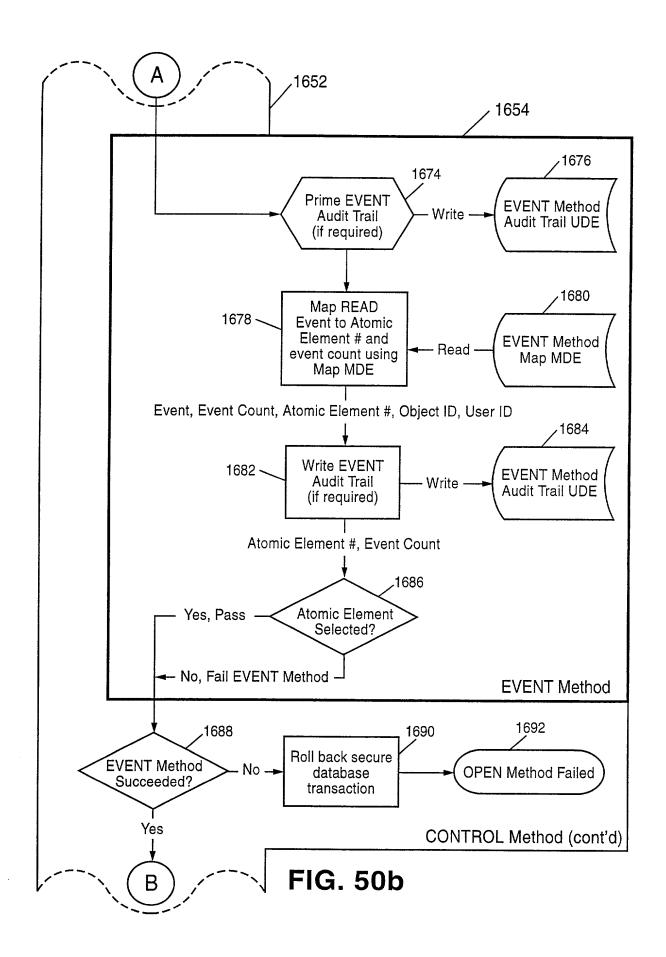


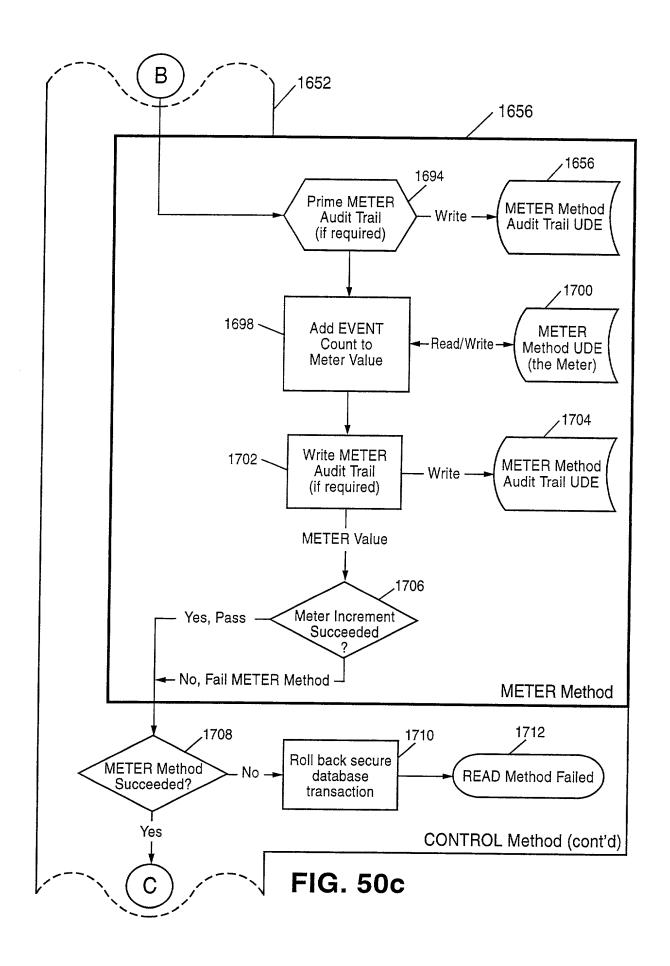


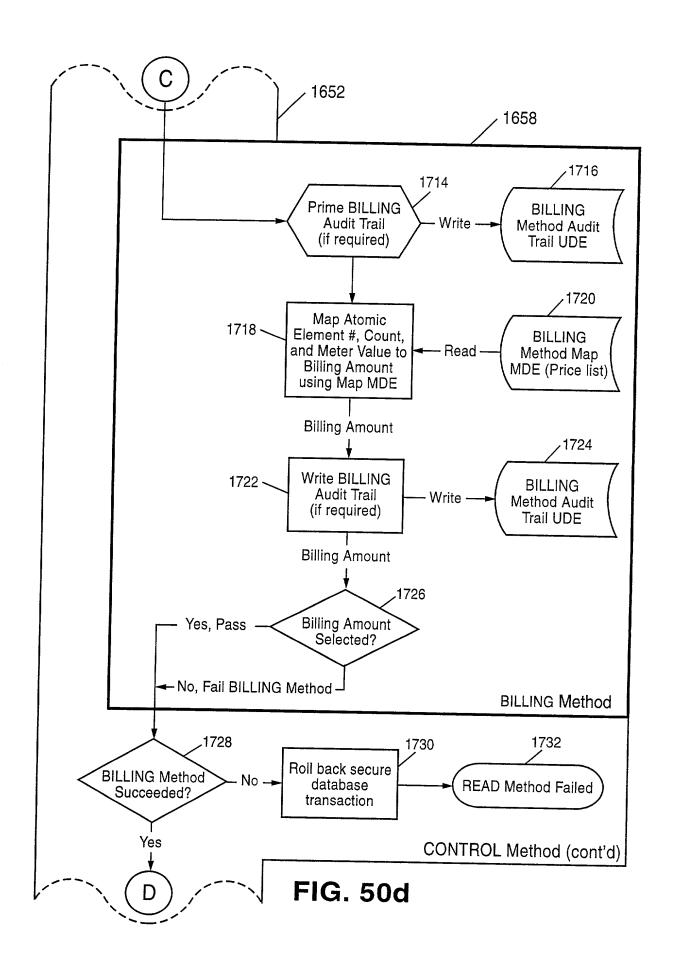


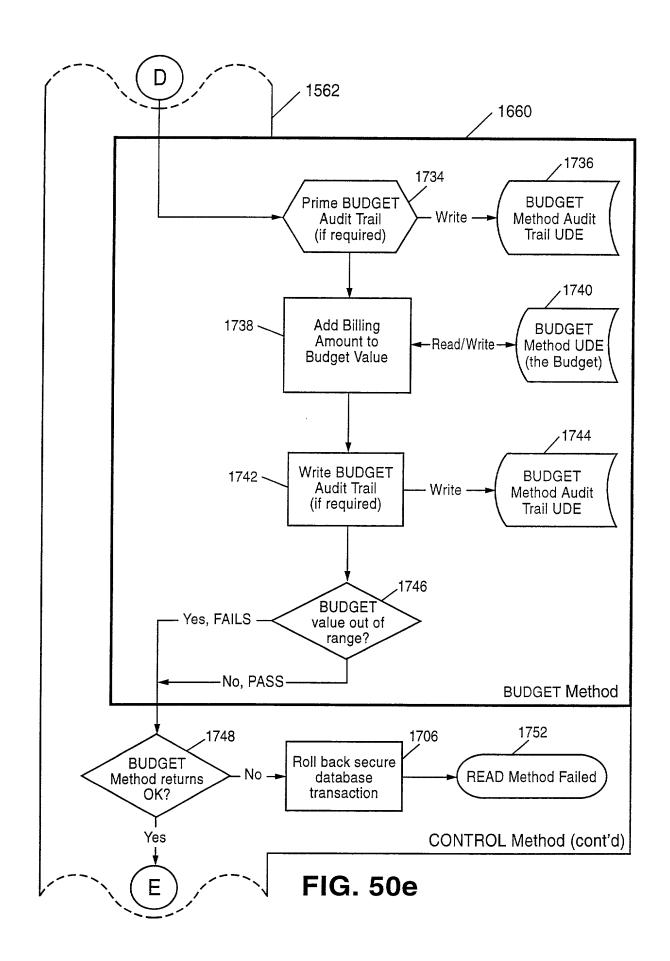


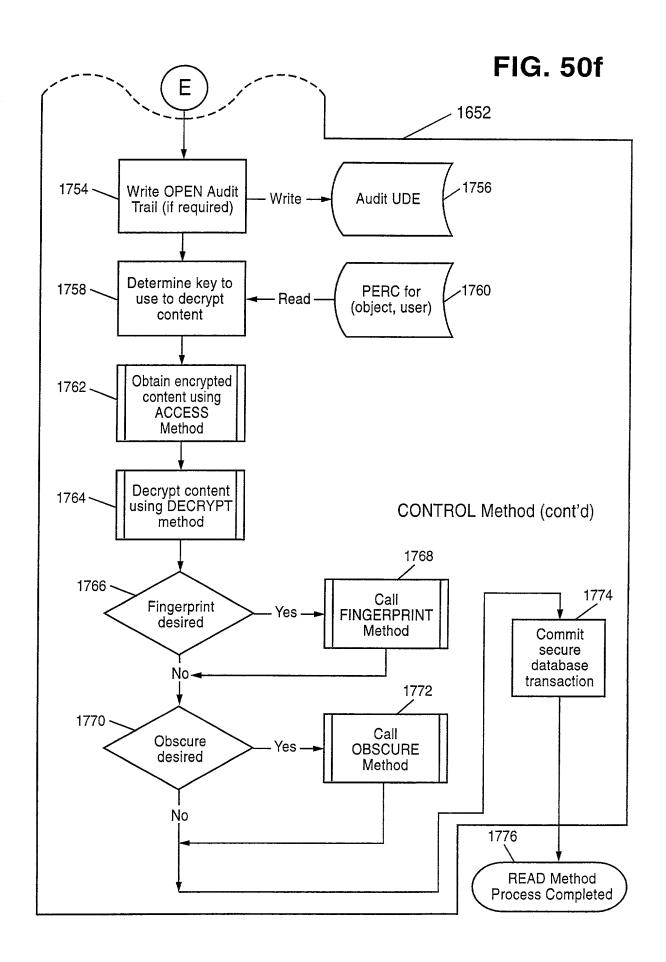


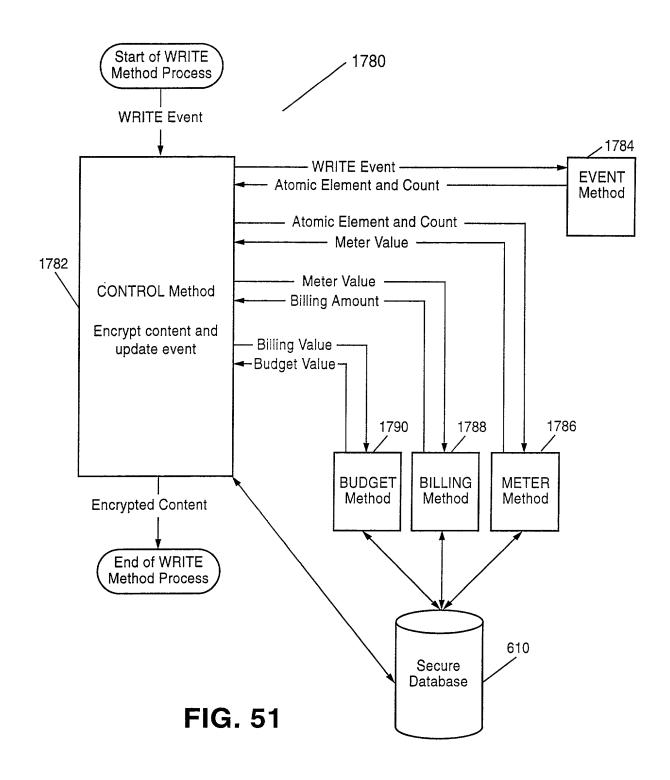


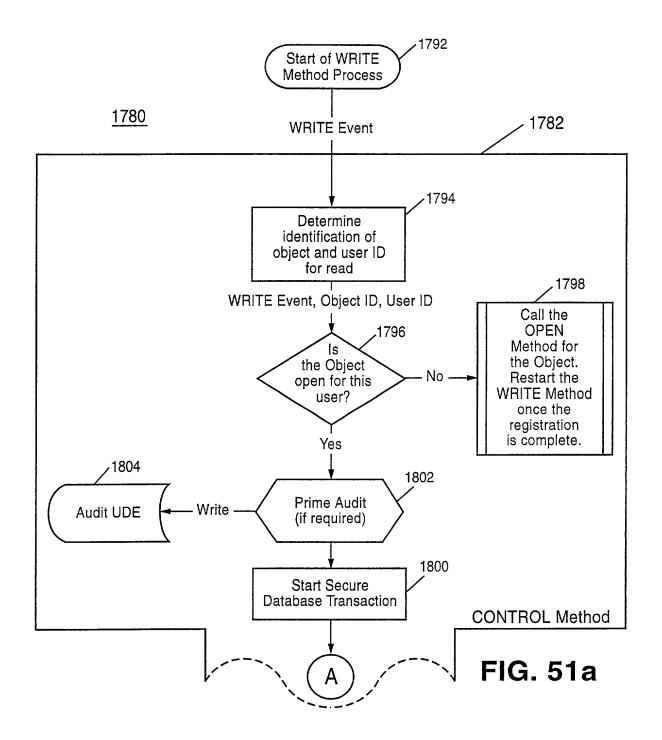


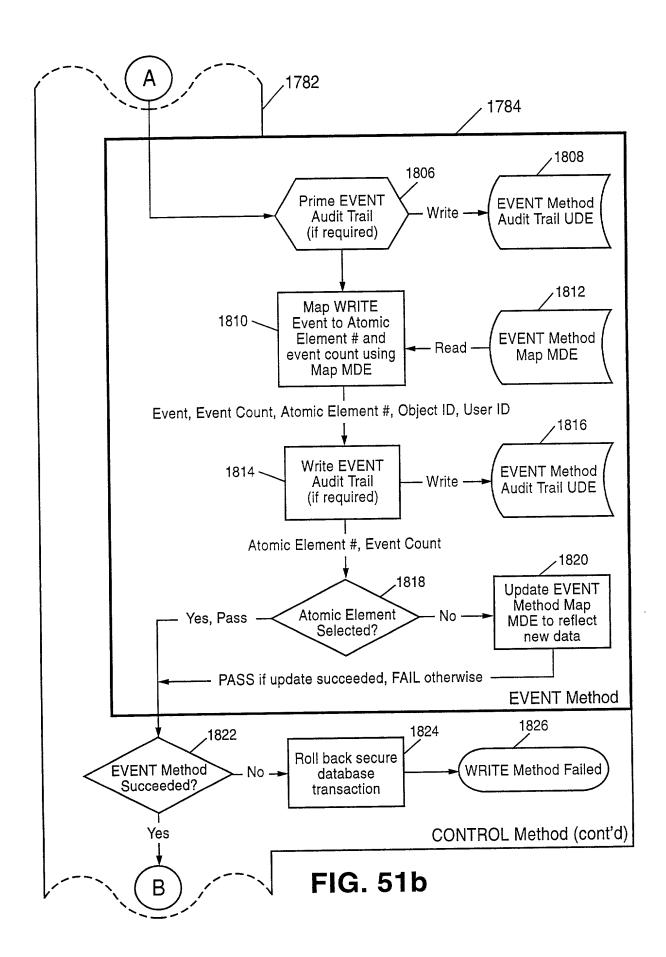


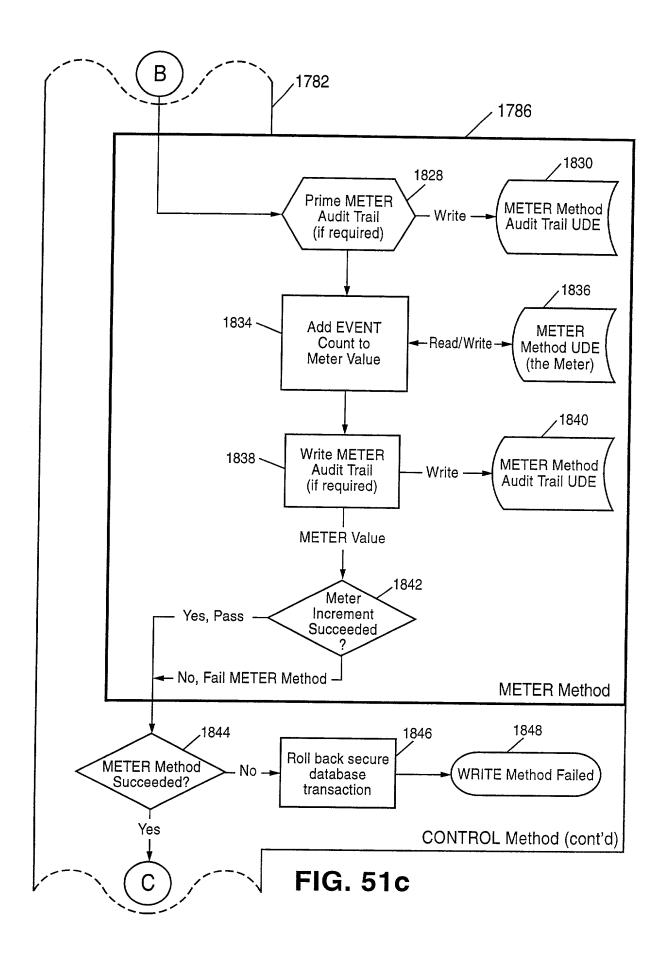


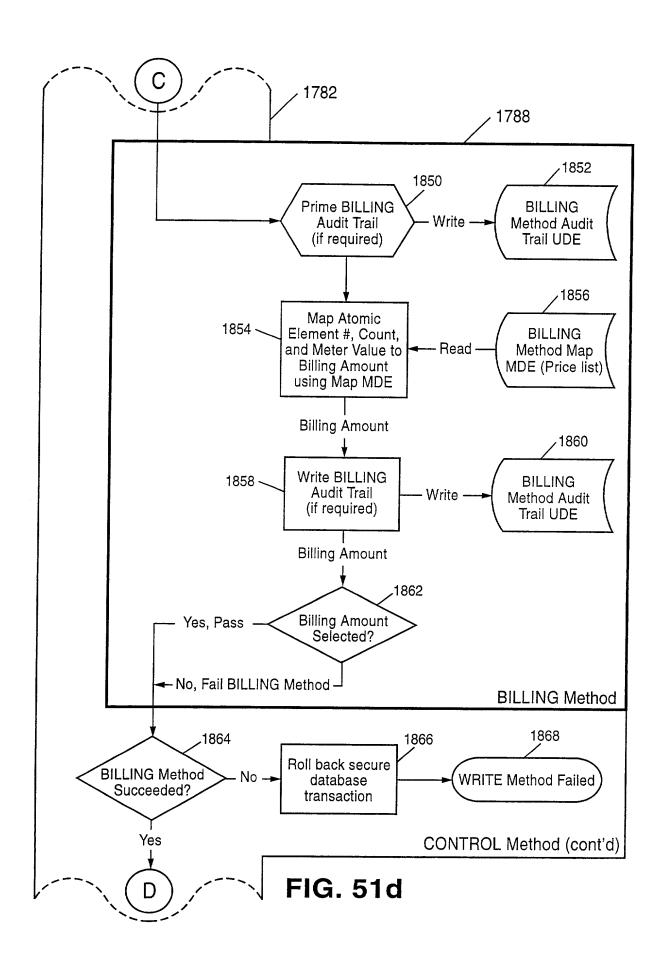


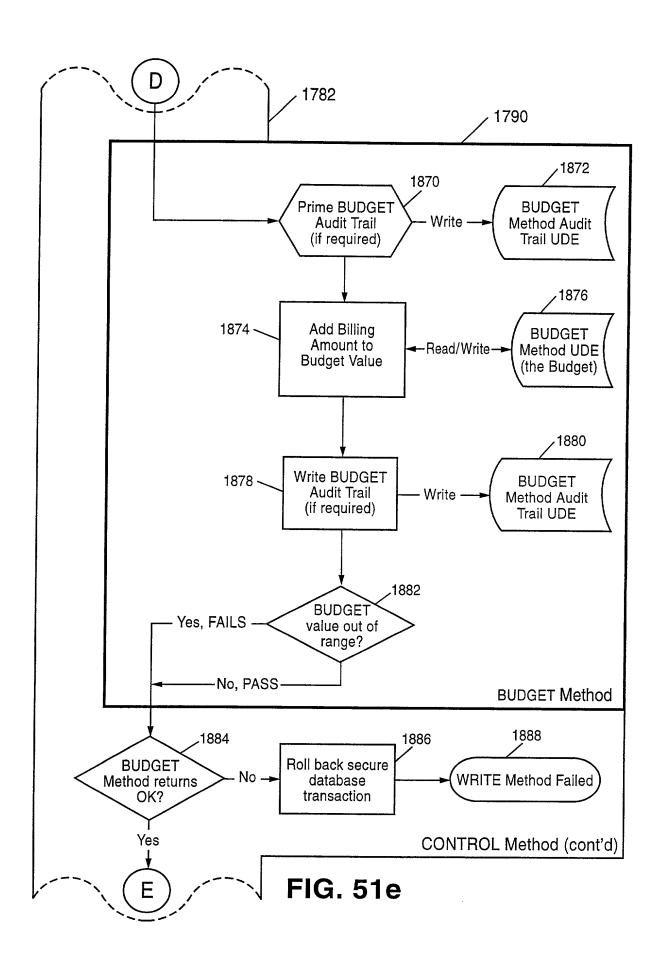


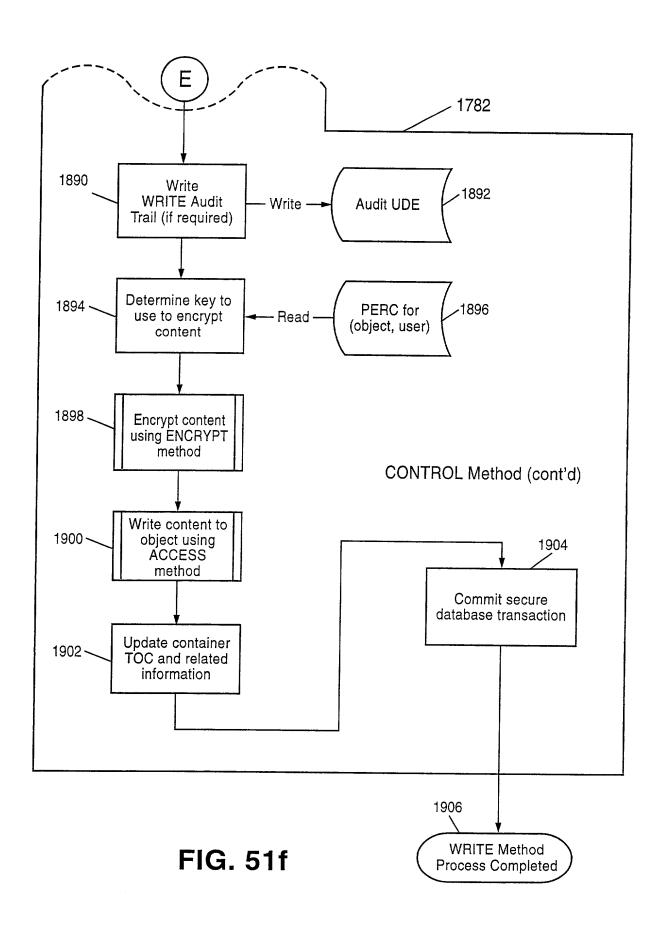


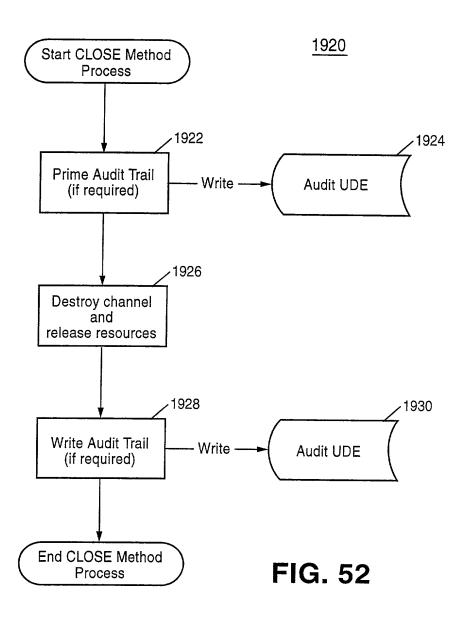


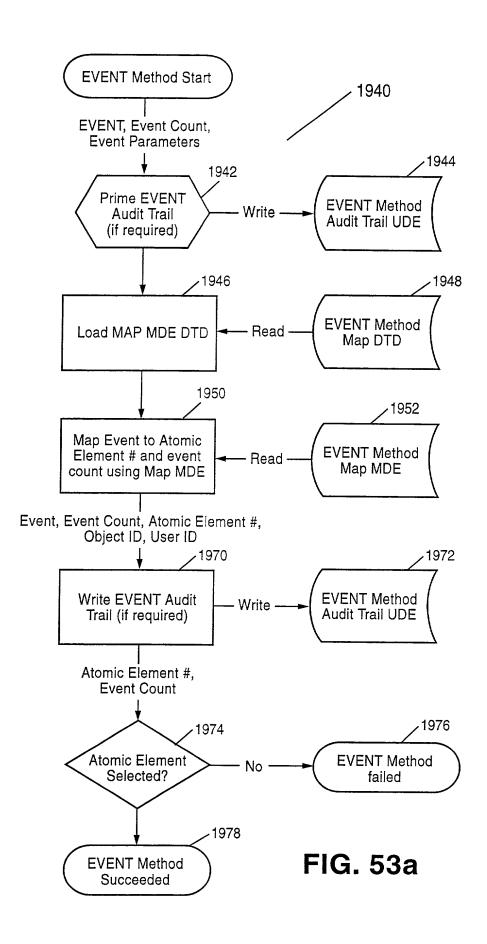


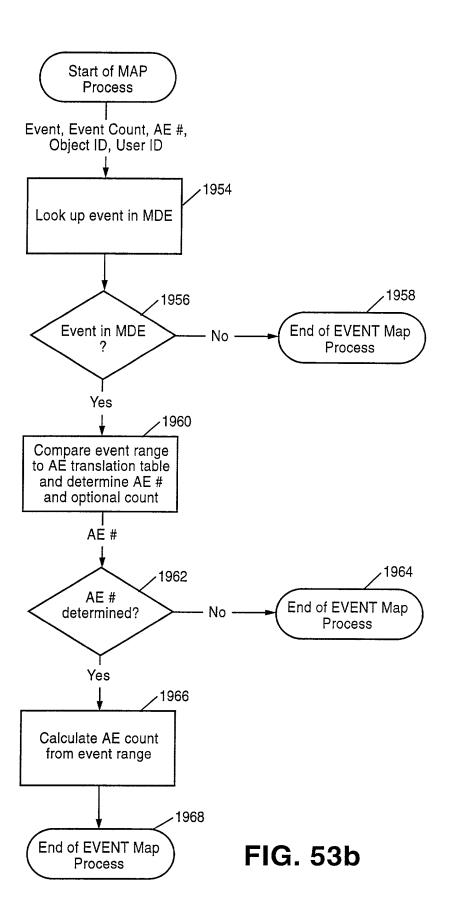


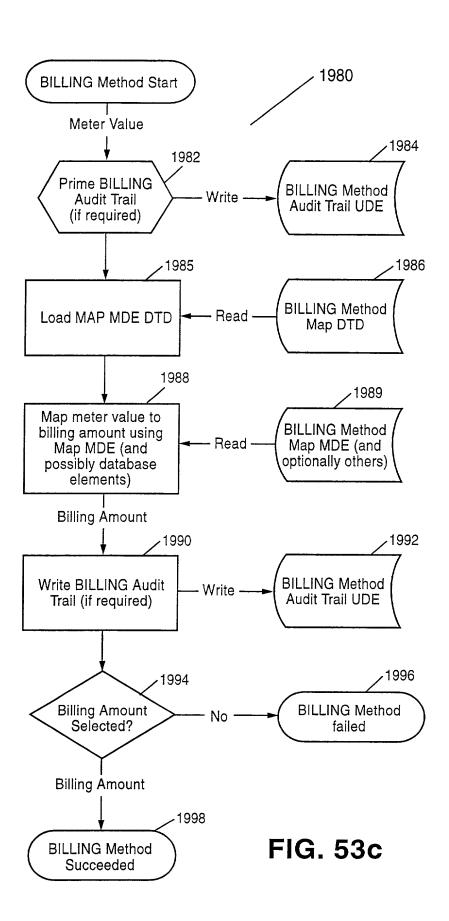


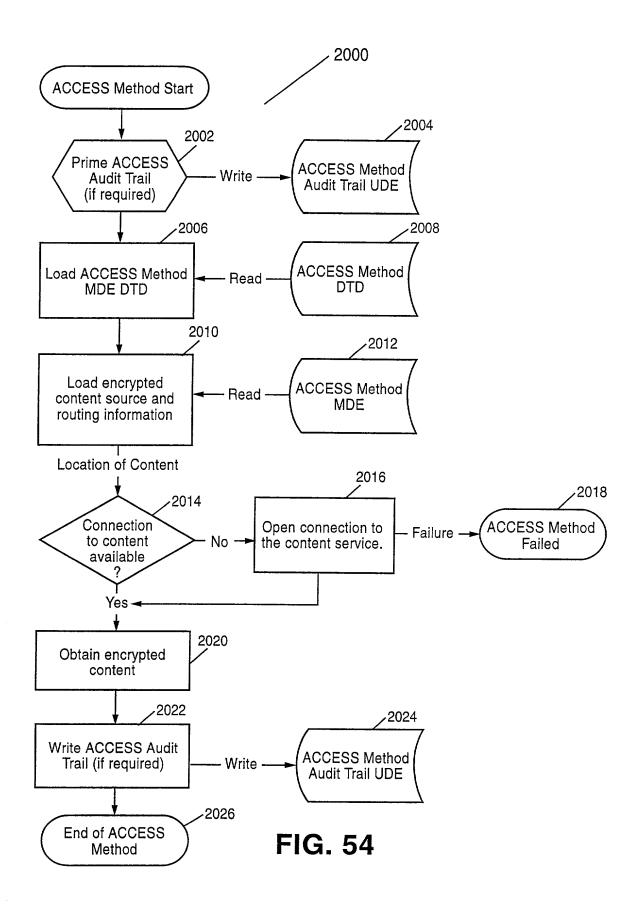


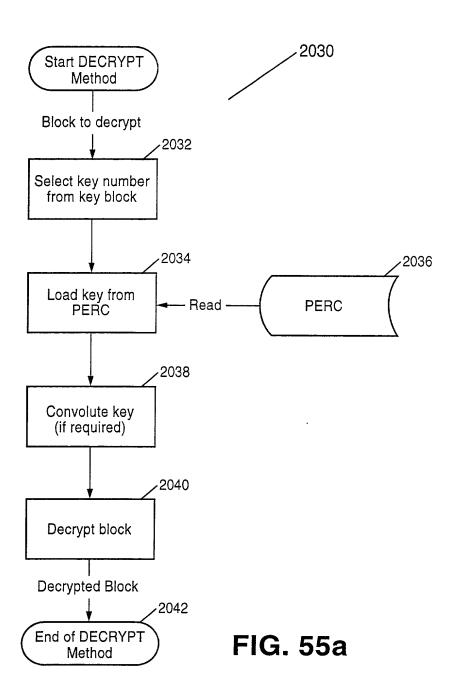


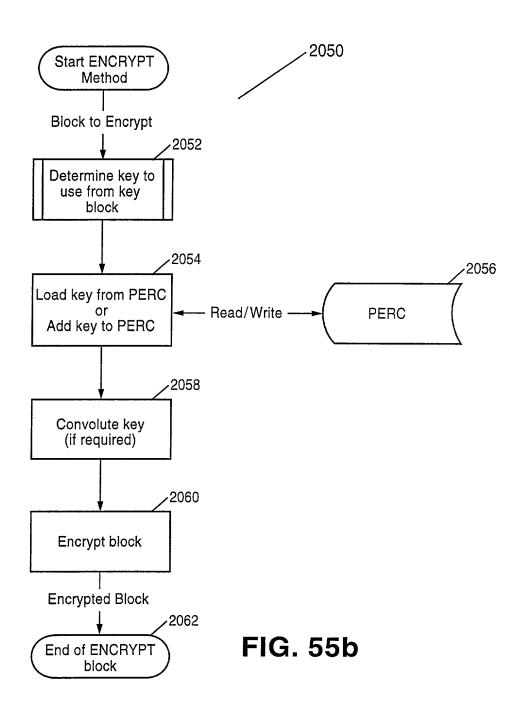


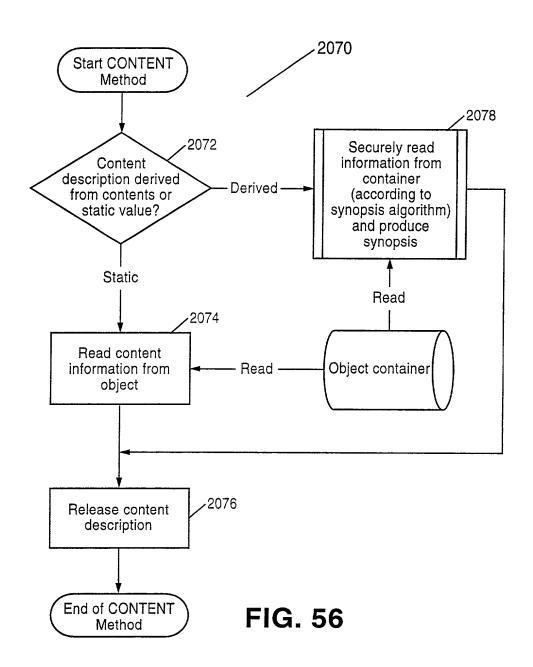


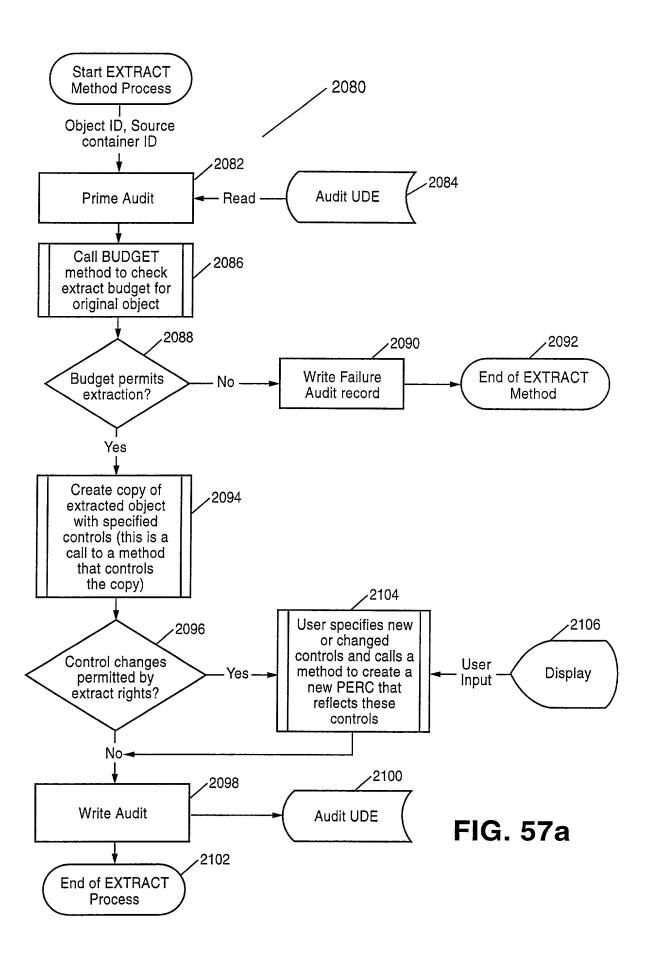


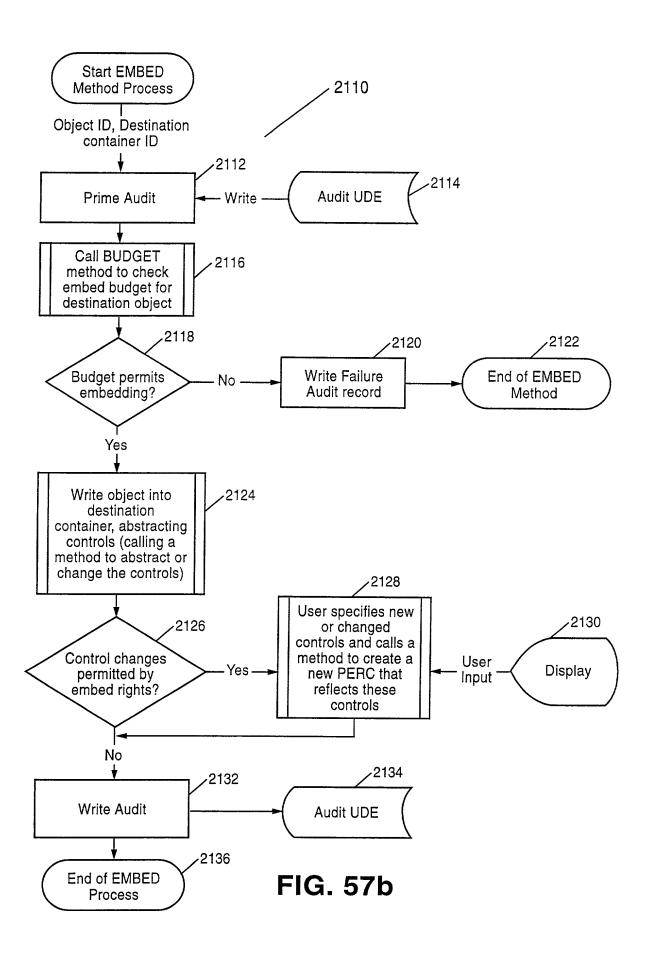


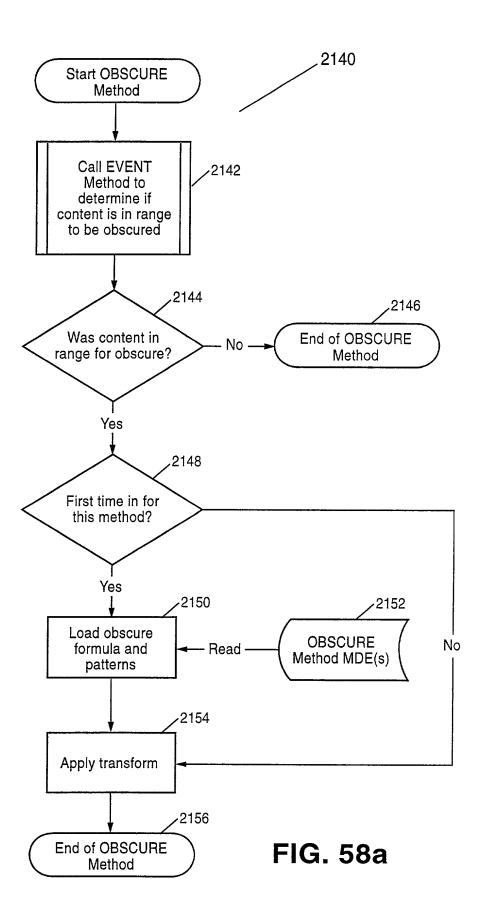


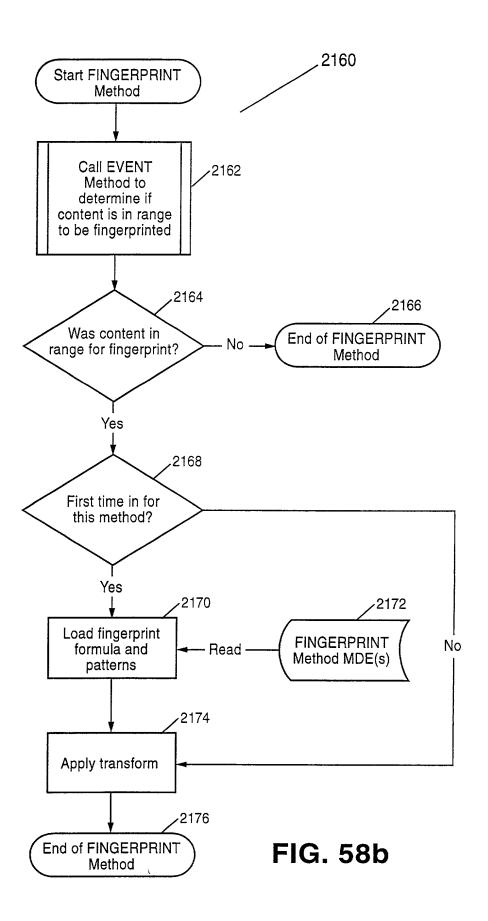












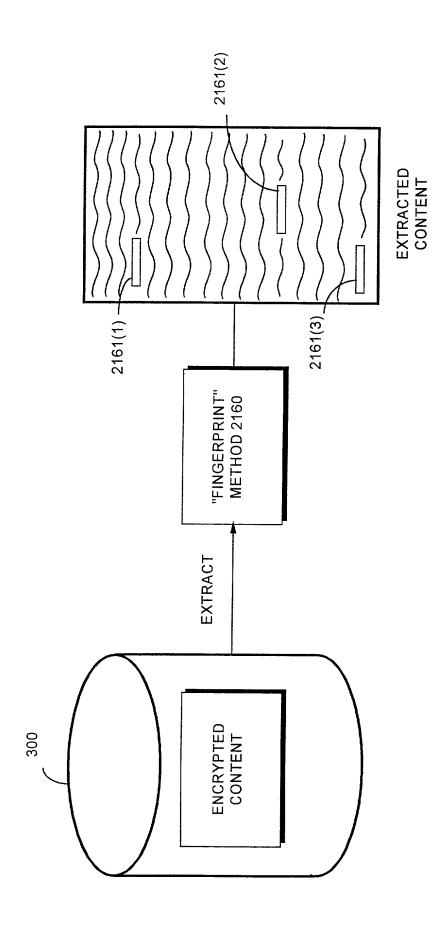
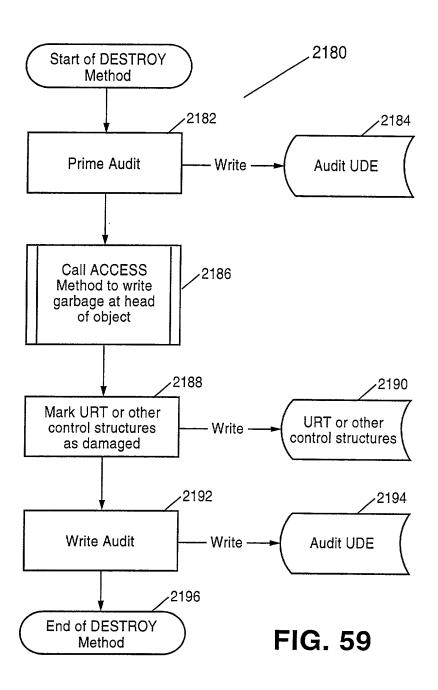
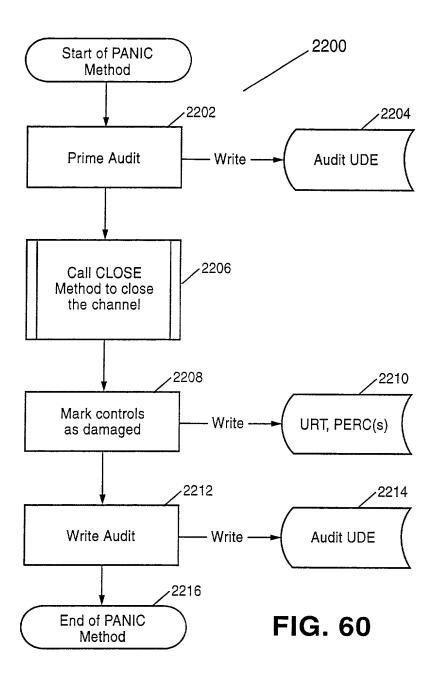


FIG. 58C





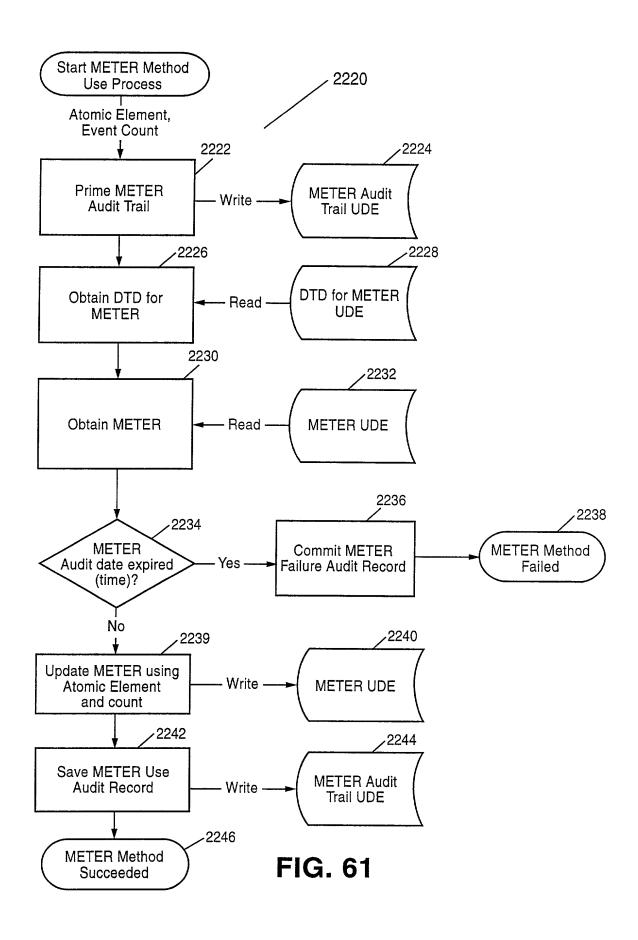
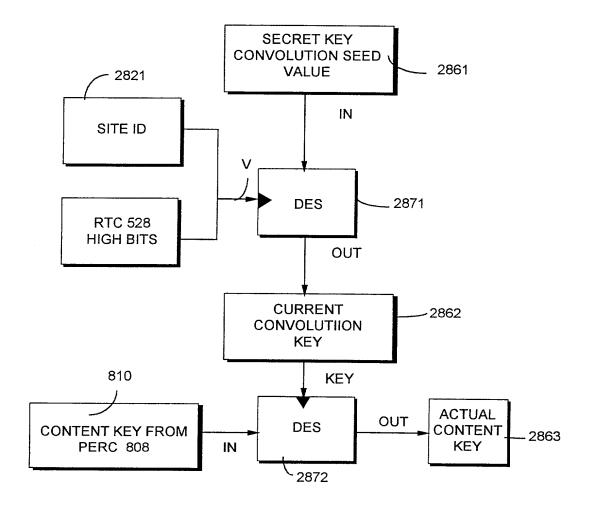
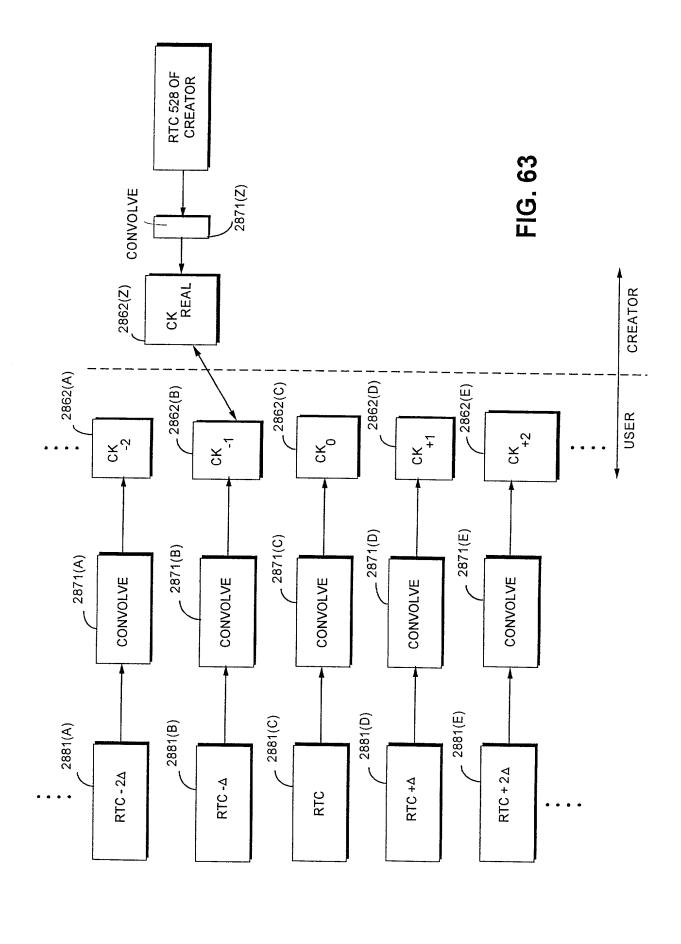
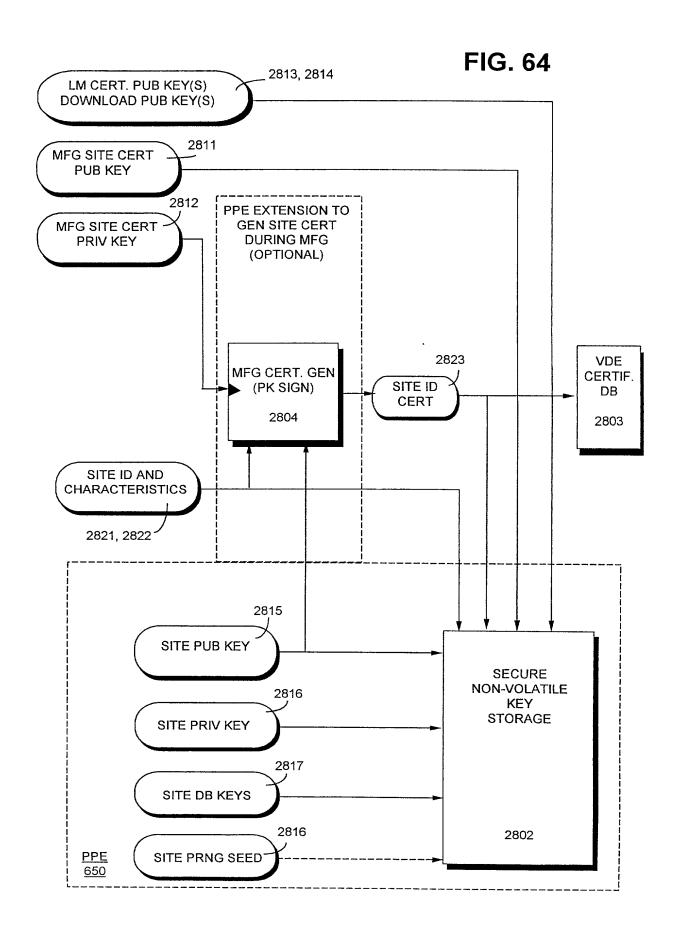
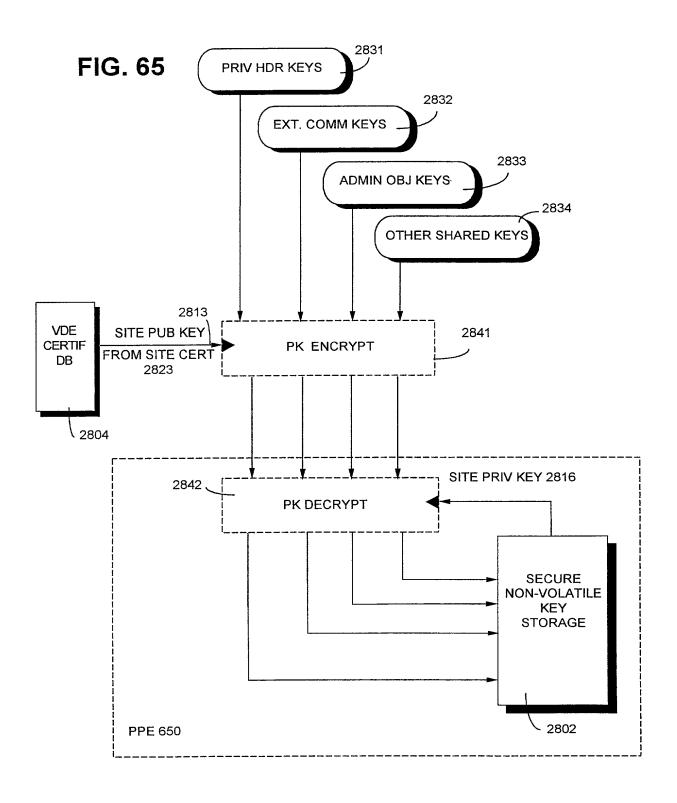


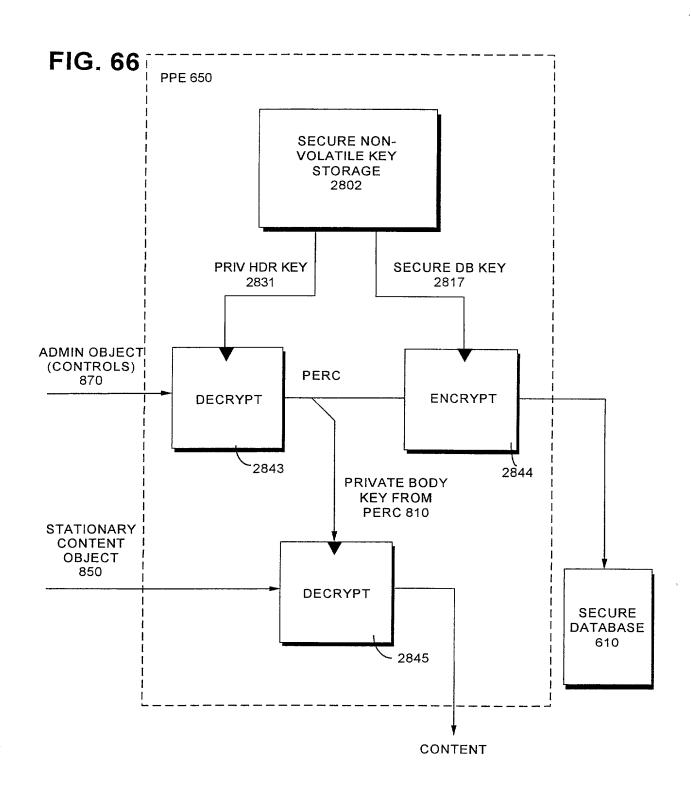
FIG. 62

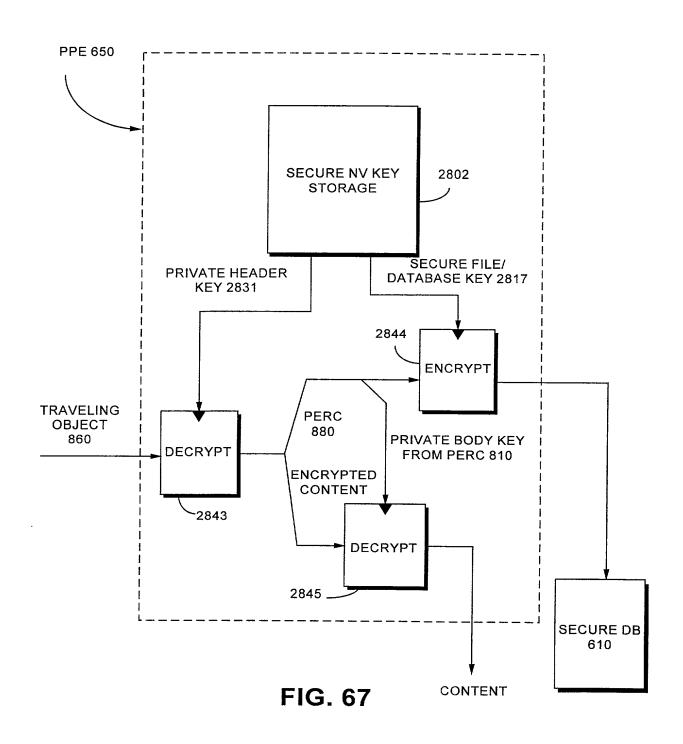


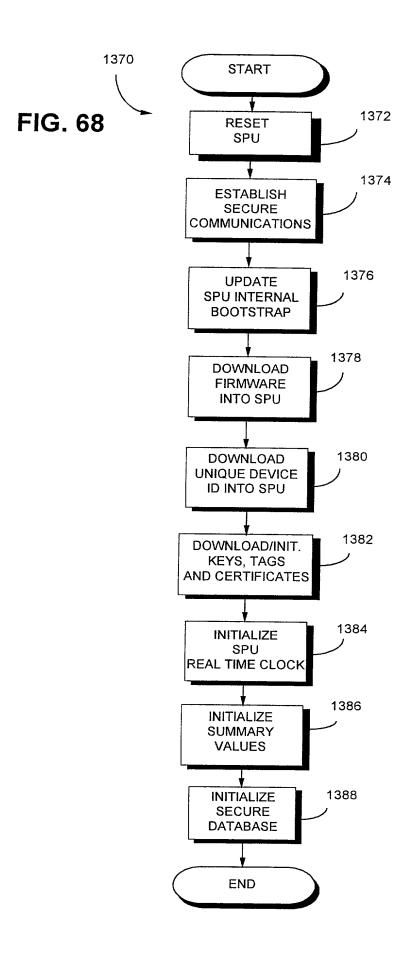


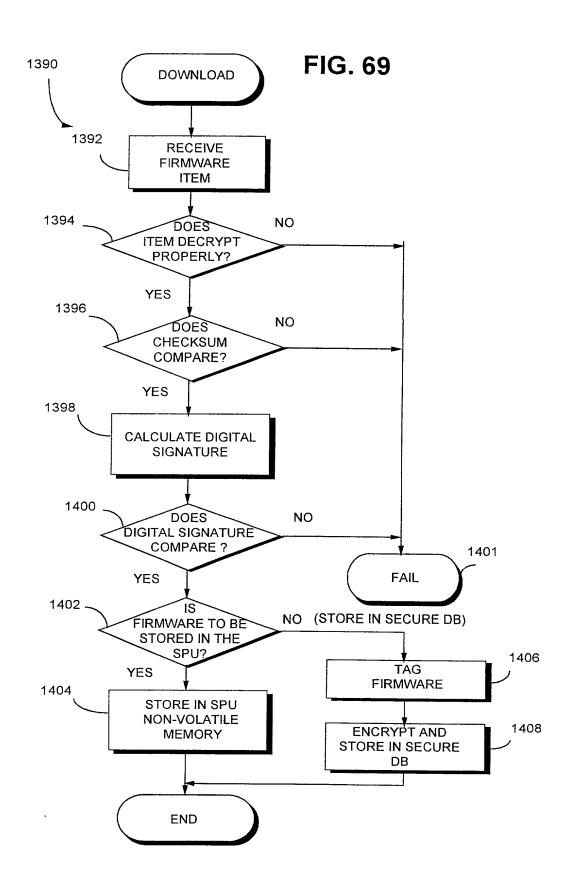


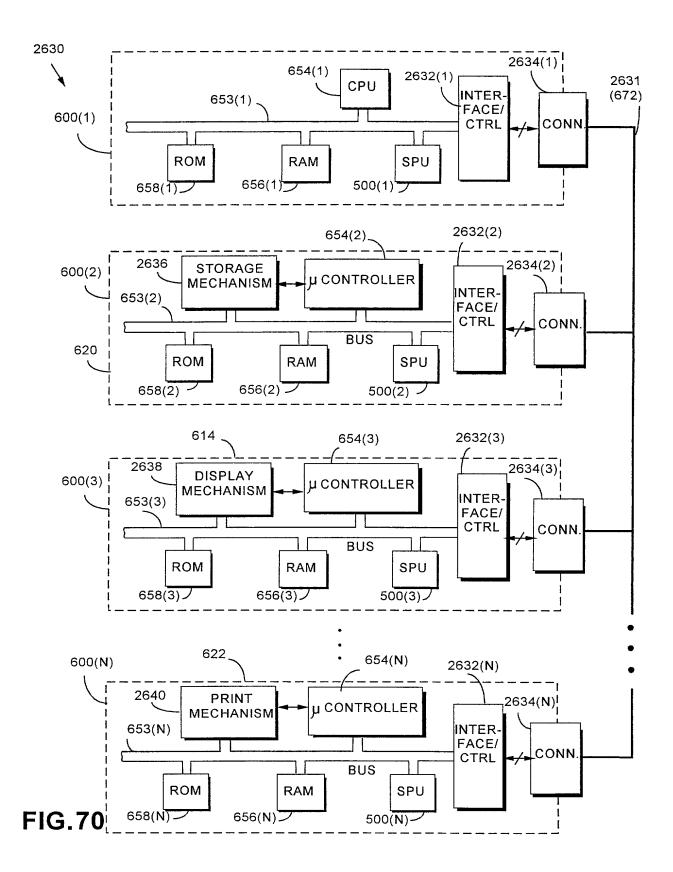


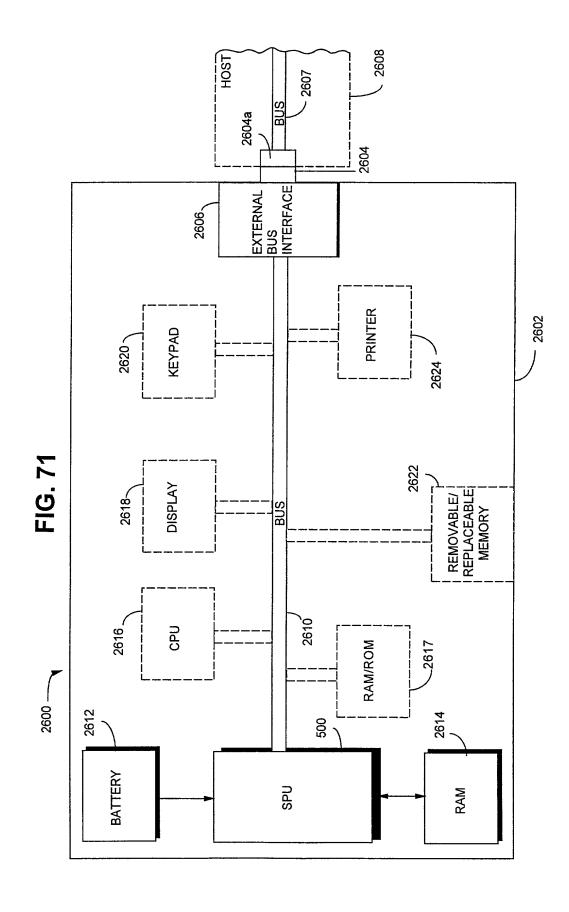












LOG IN USER INTERFACE	182
USER NAME: SHEAR, V.	LOGIN
PASSWORD:	CANCEL
LOGIN AT STARTUP	HELP

FIG. 72A

FIG. 72B

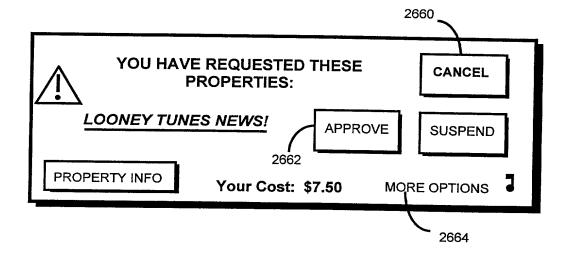


FIG. 72C

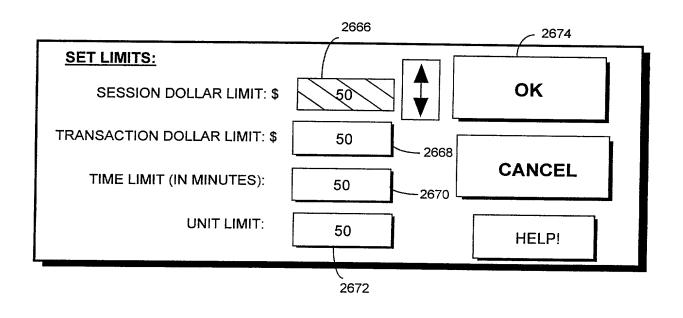
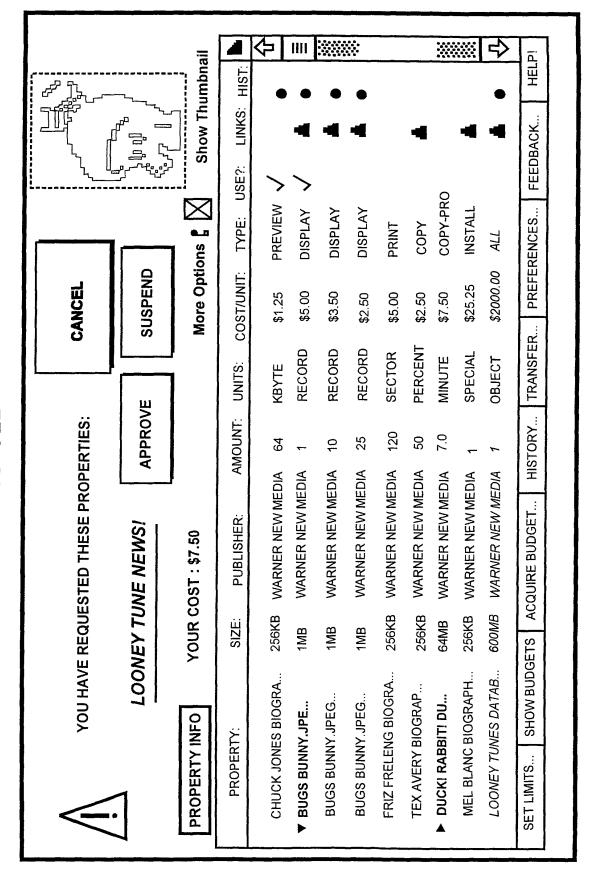
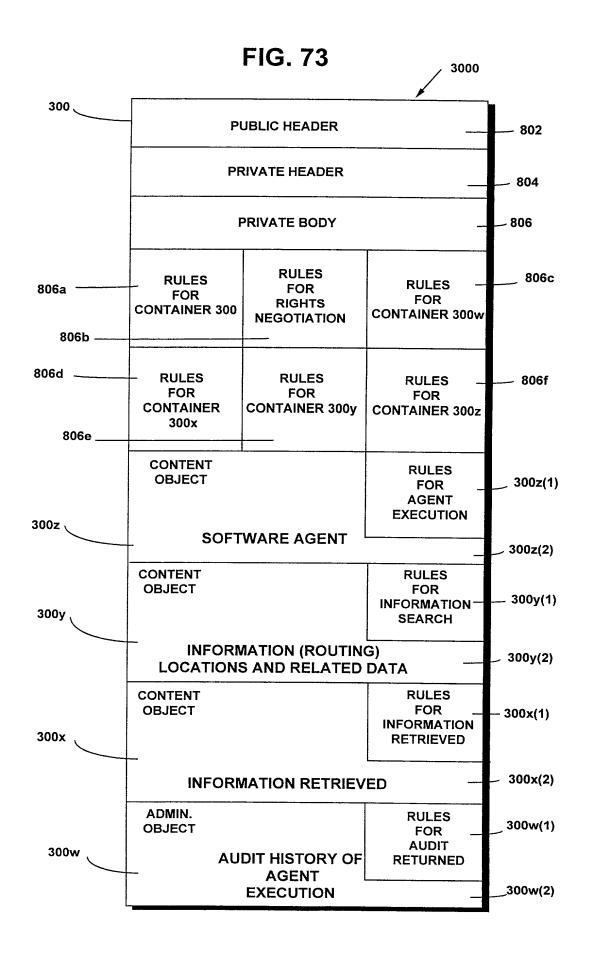


FIG. 72D





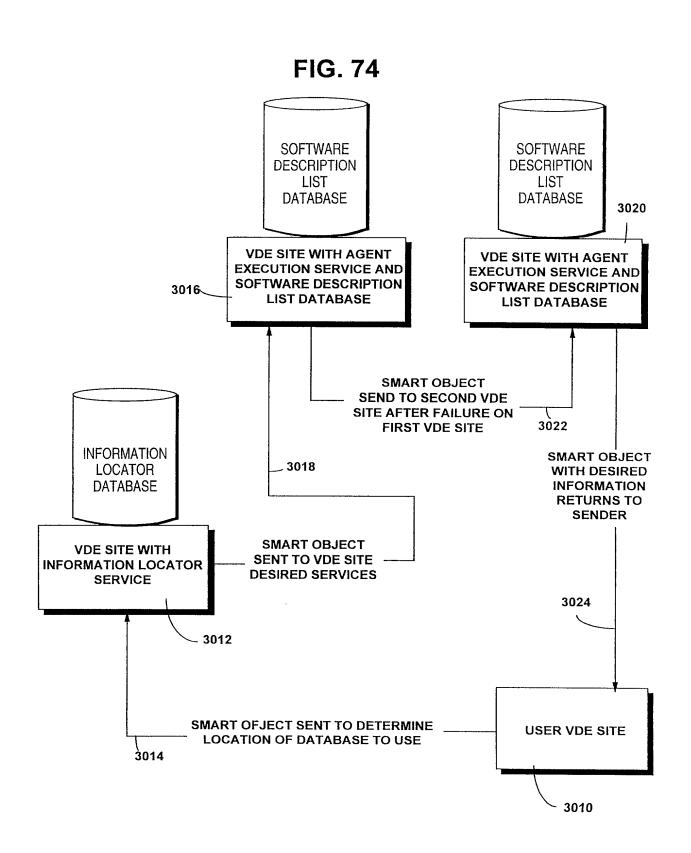


FIG. 75A

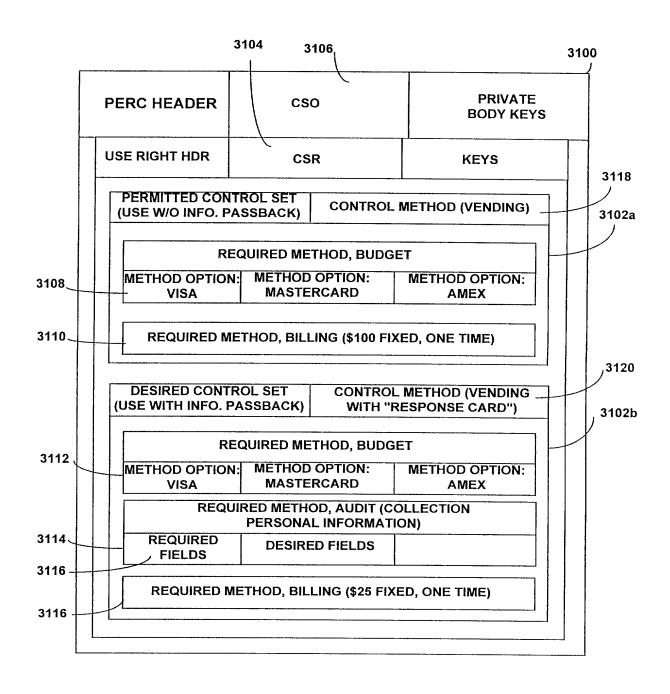


FIG. 75B

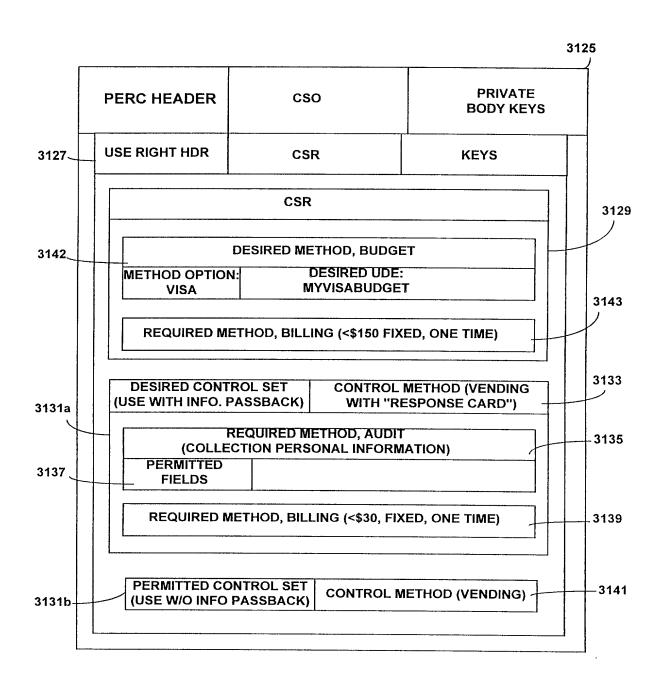


FIG. 75C

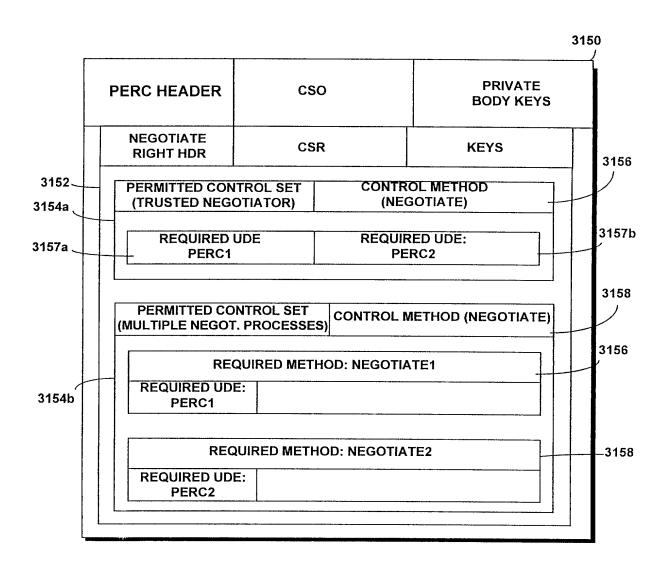
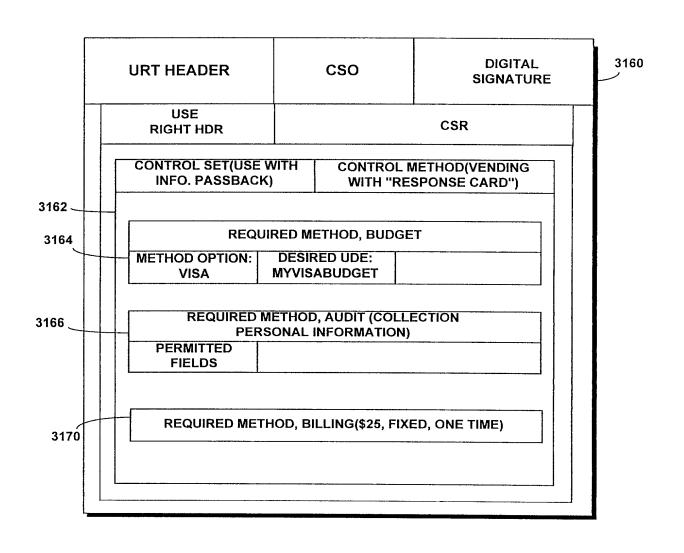
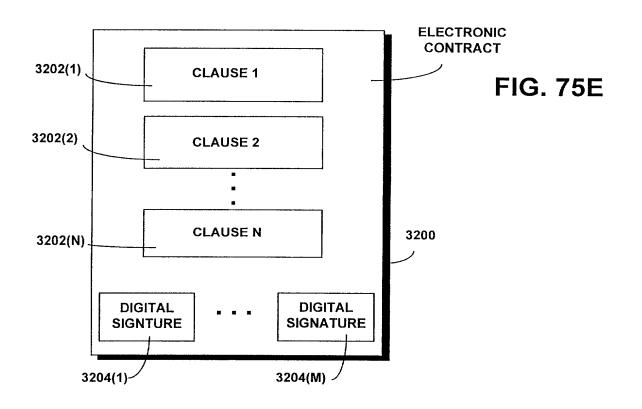


FIG. 75D





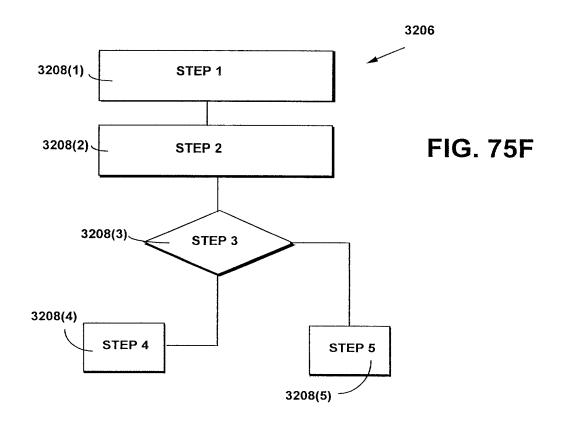


FIG. 76A

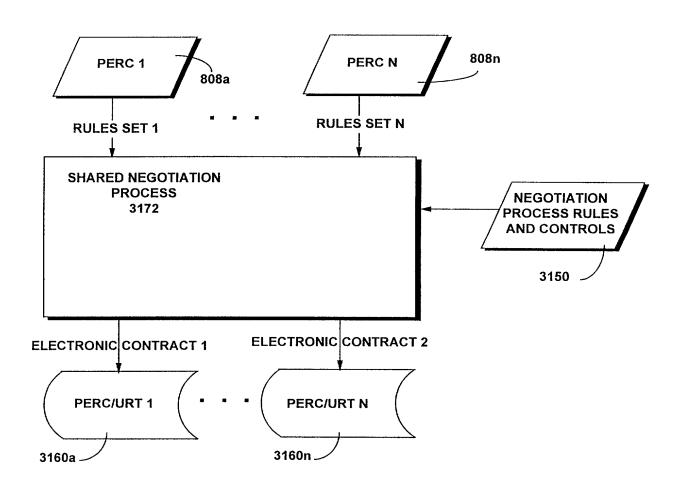
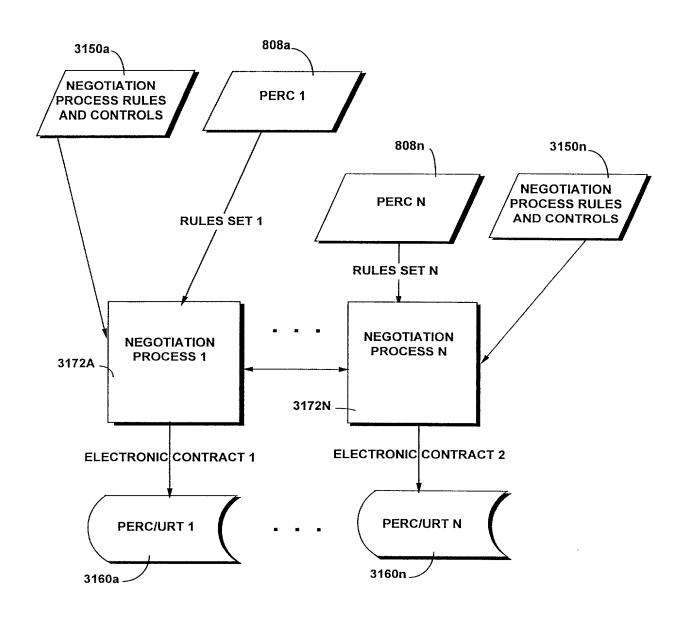
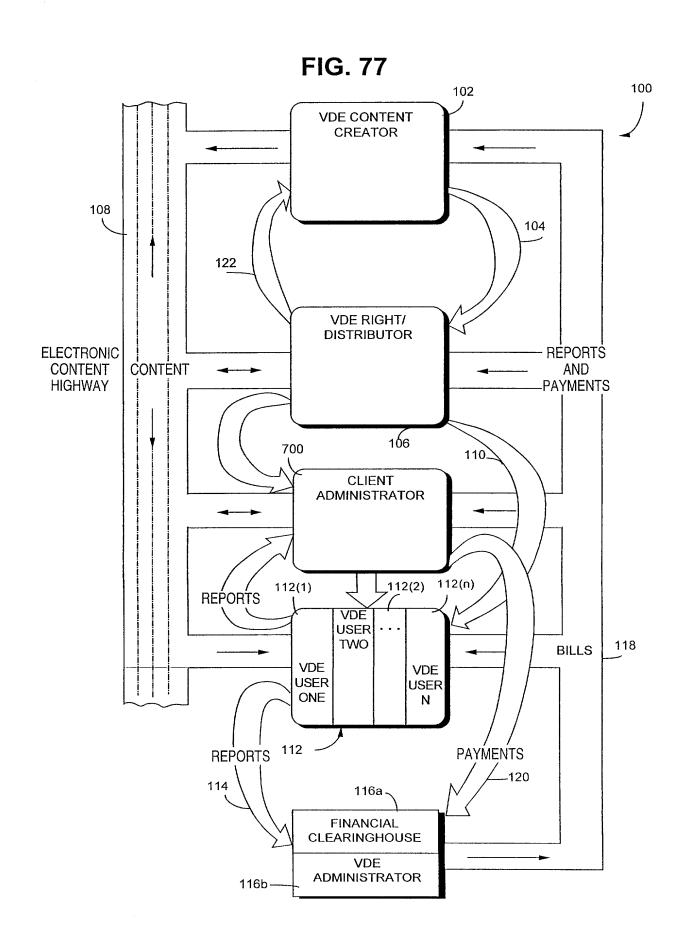


FIG. 76B





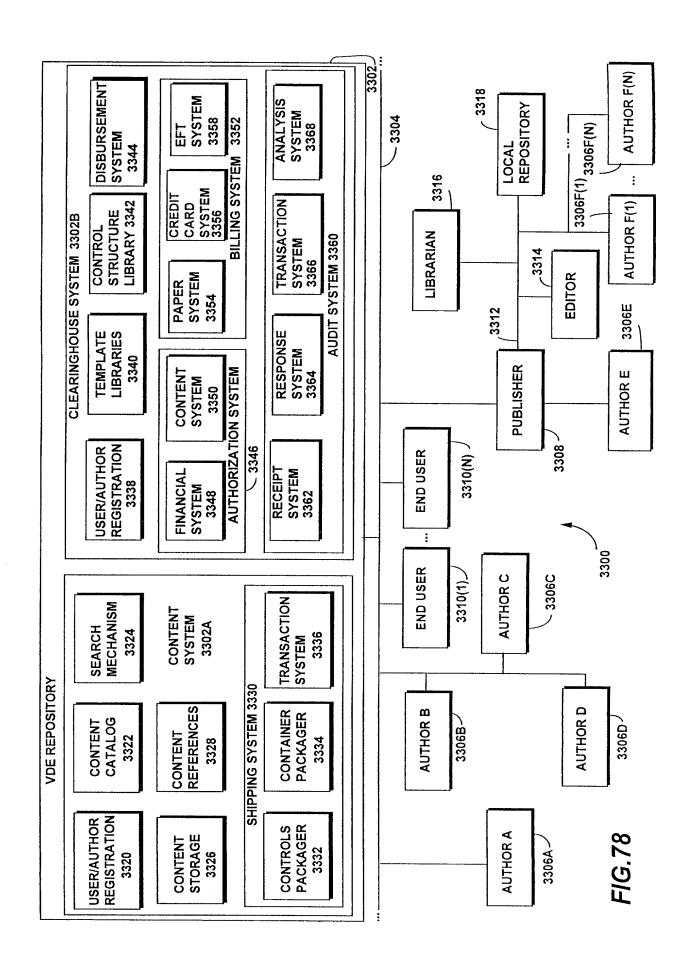
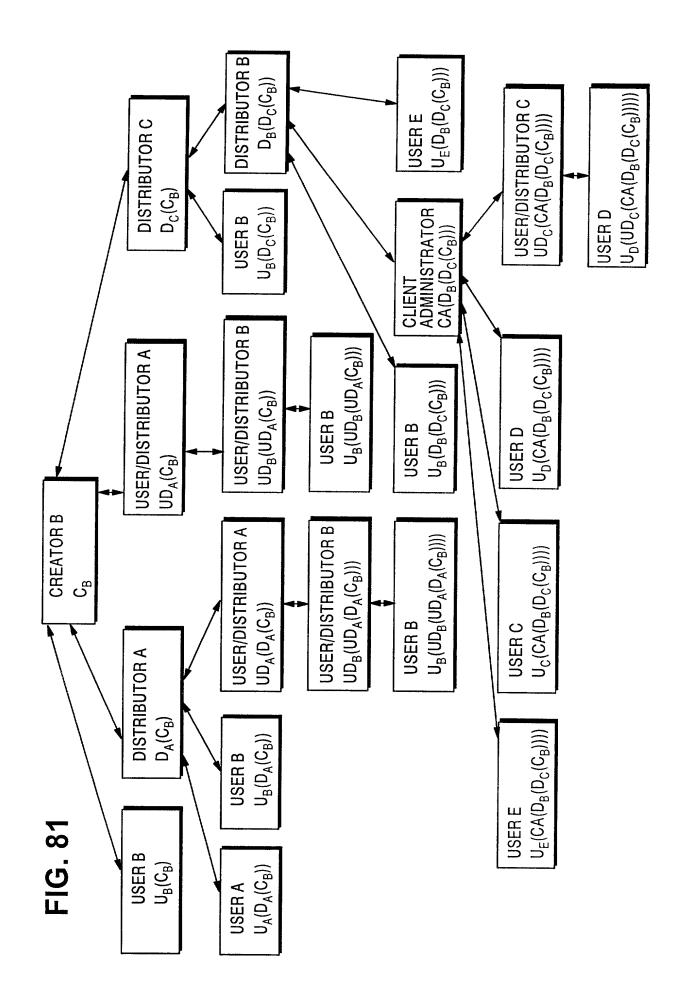
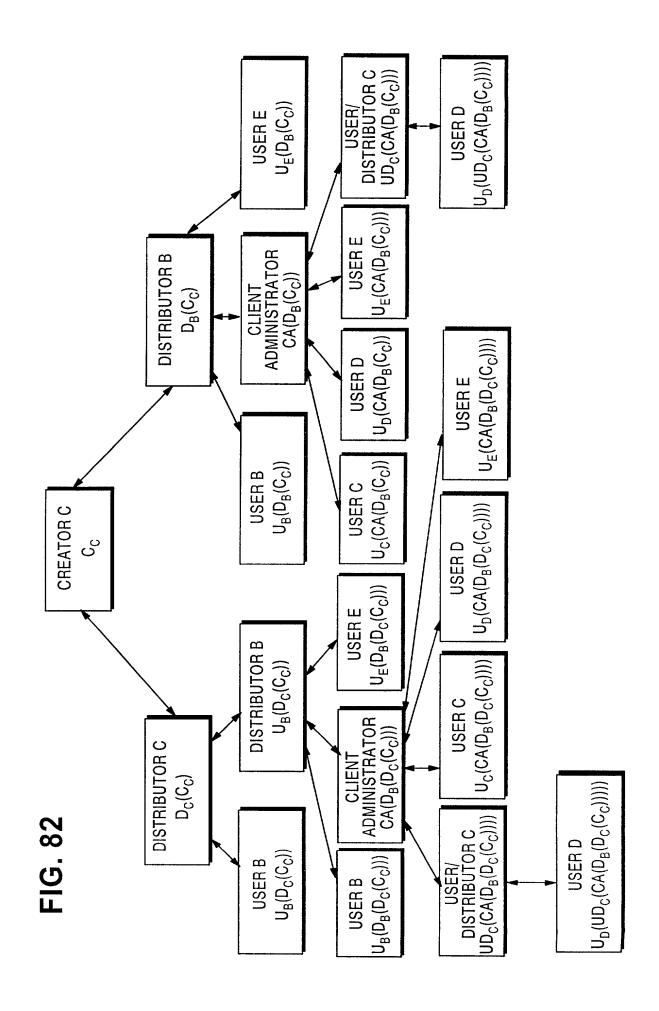


FIG. 79 **CREATOR B CREATOR C** CREATOR A DISTRIBUTOR C **CREATOR D** CREATOR DISTRIBUTOR B **DISTRIBUTOR A** Ε CLIENT USER/ **ADMINISTRATOR DISTRIBUTOR A** USER/ USER/ **USER A USER C USER E** DISTRIBUTOR DISTRIBUTOR B USER D **USER B**

FIG. 80 **CREATOR A** C_A **DISTRIBUTOR A** $\mathsf{D}_\mathsf{A}(\mathsf{C}_\mathsf{A})$ USER B USER A USER/DISTRIBUTOR A $\mathsf{U}_\mathsf{B}(\mathsf{D}_\mathsf{A}(\mathsf{C}_\mathsf{A}))$ $U_A(D_A(C_A))$ $\mathsf{UD}_\mathsf{A}(\mathsf{D}_\mathsf{A}(\mathsf{C}_\mathsf{A}))$ USER/DISTRIBUTOR B $\mathsf{UD}_\mathsf{B}(\mathsf{UD}_\mathsf{A}(\mathsf{D}_\mathsf{A}(\mathsf{C}_\mathsf{A})))$ **USER B** $\mathsf{U}_\mathsf{B}(\mathsf{U}\mathsf{D}_\mathsf{B}(\mathsf{U}\mathsf{D}_\mathsf{A}(\mathsf{D}_\mathsf{A}(\mathsf{C}_\mathsf{A}))))$





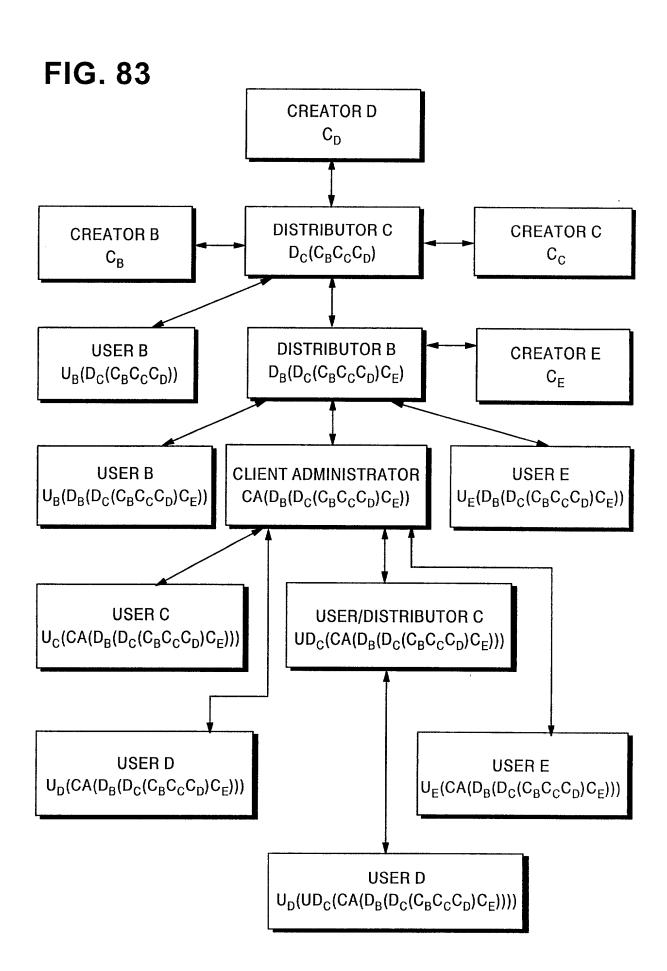


FIG. 84

